### **HISTORY INFORMATION FOR THE FOLLOWING MANUAL:**

## **SERVICE MANUAL**



MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KDP-51WS550	RM-Y192	US/CND	SCC-M11CA
KDP-57WS550	RM-Y192	US/CND	SCC-M11AA
KDP-65WS550	RM-Y192	US/CND	SCC-M11BA

### ORIGINAL MANUAL ISSUE DATE: 7/2003

:UPDATED ITEM

REVISION DATE	REVISION TYPE SUBJECT
7/2003	No revisions or updates are applicable at this time.
7/25/2003	Updated Table of Contents (Replaced Page 3 with Page 3)
	Updated 2-4. Focus Lens Adjustment step #11 (Replaced Page 17 with Page 17),
	Exchanged order of procedures for 2-6. & 2-7. (2-Pole Magnet Adjustment &
	Centering Magnet Adjustment), Added step #7 to 2-6. Centering Magnet Adjustment,
	Updated 2-9. Defocus Adjustment (Blue) step #5 (Replaced Page 18 with Page 18)
	Corrected instructions for 3-2. HV Hold Down Circuit Operation Check (Replaced Page 38 with Page 38)
	Corrected procedure for 3-4. +B OVP Confirmation (Replaced Page 39 with Page 39)
10/2004	Removed Note from section 2-12-1. Setup For Adjustment. Note is intended for use by the factory
	during production, and should not be performed by service technicians.
	(Replaced Page 30 with Page 30)
	Added new Q Box Assembly PNs for all models to Exploded View 6-3. Chassis section
1/2005	(Replaced Page 101 with Page 101)
1/2005	Added Caution statement. (Replaced Page 5 with Page 5)
	COLOR REAR VIDEO PROJECTION
	CONTA



## **SERVICE MANUAL**

# **AX1** chassis

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KDP-51WS550	RM-Y192	US/CND	SCC-M11CA
KDP-57WS550	RM-Y192	US/CND	SCC-M11AA
KDP-65WS550	RM-Y192	US/CND	SCC-M11BA





RM-Y192

**COLOR REAR VIDEO PROJECTION** 



### TABLE OF CONTENTS

SECTION TITLE	PAGE
Specifications	4
Warnings and Cautions	
Safety Check-Out	6
Self-Diagnostic Function	
•	
SECTION 1: DISASSEMBLY	
1-1. Rear Board Removal	10
1-2. Terminal Board and UD Board Removal	
1-3. Chassis Assembly Removal	
1-4. Service Position	11
1-5. MA Board, BM Board, G2 Board, AD board,	
Q Box Assembly, and UA Board Removal	
1-6. D Board, A Board, and DS Board Removal	
1-7. High-Voltage Cable Installation and Removal	
1-8. Picture Tube Removal	
1-9. Grille, HA Board, QH Board, and HB Board Removal	
1-10. Beznet Assembly Removal	
1-11. SR Board Removal	
1-12. Mirror Cover Removal (KDP-51WS550/57WS550 Only)	15
SECTION 2: SET-UP ADJUSTMENTS	16
2-1. Screen Voltage Adjustment (G2) (Coarse Adjustment)	
2-2. Screen (G2) Adjustment (Fine Adjustment)	
2-3. Deflection Yoke Tilt Adjustment	
2-4. Focus Lens Adjustment	
2-5. Focus VR Adjustment	
2-6. Centering Magnet Adjustment	
2-7. 2-Pole Magnet Adjustment	18
2-8. 4-Pole Magnet Adjustment	
2-9. Defocus Adjustment (Blue)	
2-10. Electrical Adjustments by Remote Commander	
2-10-1. Method of Entering the Service Adjustment Mode	
2-10-2. Memory Write Confirmation Method	
2-10-3. Adjusting Buttons and Indicator	
2-11. Adjustable Service Data Lists	20
2-11-1. ID Map Table	
2-12. Registration Adjustment (PJE Mode Only)	
2-12-1. Setup for Adjustment	
2-12-2. Main Deflection Adjustment	
2-12-3. Operation Method for Projector Engine Mode	
2-13.PJE Adjustment (Sub Deflection Adjustment)	
2-13-1. Adjustment for NTSC Full Mode	
2-13-2. Copying All Registration Data to Other Modes	
2-14. Auto Registration Offsets	
2-15. Auto Registration Error Codes	
2-16. Auto Registration Diagnostics	
SECTION 3: SAFETY-RELATED ADJUSTMENTS	
D BOARD	
3-1. HV Regulation Circuit Check and Adjustment	
3-2. HV Hold Down Circuit Operation Check	
G BOARD	
3-3. +B Max Voltage Confirmation	
3-4. +B OVP Confirmation	39

SECTION	TITLE	PAGE
SECTION	4: CIRCUIT ADJUSTMENTS	40
	P & P Sub Contrast Adjustment (Video) (SCON)	
4-2.	P & P Sub Contrast Adjustment (RF) (SCON)	40
4-3.	P & P Sub-Hue and Sub-Color Adjustment Video	
	(SHUE, SCOL)	40
4-4.	P & P Sub-Hue and Sub-Color Adjustment (RF)	
	(SHUE, SCOL)	
4-5.	Blue Offset Adjustment	41
SECTION	5: DIAGRAMS	42
	Circuit Boards Location	
	Printed Wiring Boards and	
	Schematic Diagrams Information	42
5-3.	Block Diagrams	
	Schematics and Supporting Information	
	CR Board Schematic Diagram	
	CB Board Schematic Diagram	
	CG Board Schematic Diagram	
	VM Board Schematic Diagram	
	MA Board Schematic Diagram (1 of 3)	
	MA Board Schematic Diagram (2 of 3)	
	MA Board Schematic Diagram (3 of 3)	
	A Board Schematic Diagram (1 of 2)	
	A Board Schematic Diagram (2 of 2)	
	UA Board Schematic Diagram (1 of 2)	
	UA Board Schematic Diagram (2 of 2)	
	AD Board Schematic Diagram  D Board Schematic Diagram (1 of 3)	
	D Board Schematic Diagram (2 of 3)	
	D Board Schematic Diagram (2 of 3)	07 68
	UD Board Schematic Diagram	
	BM Board Schematic Diagram (1 of 3)	
	BM Board Schematic Diagram (2 of 3)	
	BM Board Schematic Diagram (3 of 3)	
	DS Board Schematic Diagram	
	G2 Board Schematic Diagram	
	QI Board Schematic Diagram (1 of 3)	
	QI Board Schematic Diagram (2 of 3)	81
	QI Board Schematic Diagram (3 of 3)	82
	QM Board Schematic Diagram (1 of 5)	
	QM Board Schematic Diagram (2 of 5)	
	QM Board Schematic Diagram (3 of 5)	
	QM Board Schematic Diagram (4 of 5)	
	QM Board Schematic Diagram (5 of 5)	
	QT Board Schematic Diagram	
	HA Board Schematic Diagram	
	QH Board Schematic Diagram	
	SR Board Schematic Diagram	
5.5	HB Board Schematic Diagram	
5-5.	Semiconductors	
	6: EXPLODED VIEWS	
	Cover (KDP-51WS550/57WS550 Only)	
	Cover (KDP-65WS550 0nly)	
	Chassis	
6-4.	Picture Tube	102
SECTION	7: ELECTRICAL PARTS LIST	103

#### **SPECIFICATIONS**

Power Requirements 120V AC, 60Hz

Power Consumption (W)

In Use (Max) 295W In Standby Under 1 W In i.LINK Standby Under 17 W

Inputs/Outputs DVI-HDTV

1 terminal, 3.3V T.M.D.S., 50 ohms

The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.

Video (IN)

4 total (1 on front panel)

1Vp-p, 75ohms unbalanced, sync negative

S Video (IN)

3 total (1 on front panel)

Y: 1Vp-p, 75ohms unbalanced, sync negative

C: 0.286Vp-p (Burst signal), 75ohms

Control S (IN/OUT)

1 total

Audio (IN)

7 total (1 on front panel) 500 mVrms (100% modulation)

Impedance:47 kilohm

**Component Video Input** 

2 (Y,PB,PR)

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;

P<sub>B</sub>: 0.7 Vp-p, 75 ohms; P<sub>R</sub>: 0.7 Vp-p, 75 ohms

Digital Audio Optical Output PCM/Dolby Digital

1 total Optical Rectangular

i.LINK

3 total (1 on front panel) 4-pin S400 i.LINK terminal

Variable/Fixed Audio (OUT)

More than 408 m Vrms at the maximum volume setting (Variable) More than 408 m Vrms (Fixed) Impedance (output):2 kilohms

	KDP-51WS550	KDP-57WS550	KDP-65WS550
Speaker Output (W)		20W x 2	
Dimensions (W x H x D) mm in	1194 x 1350 x 650 mm 47 x 53 <sup>1/8</sup> x 25 <sup>5/8</sup> in	1362 x 1377 x 690 mm 52 <sup>1/4</sup> x 54 <sup>3/16</sup> x 27 <sup>1/8</sup> in	1542 x 1507 x 735 mm 60 <sup>3/4</sup> x 59 <sup>1/4</sup> x 28 <sup>15/16</sup> in
Mass kg Ibs	79.3 kg 174.5 lbs	87 kg 191.5 lbs	139.5 kg 307 lbs

#### **Projection System**

3 picture tubes, 3 lenses, horizontal in-line system

#### **Picture Tube**

7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system.

#### **Projection Lenses**

High performance, large diameter hybrid lens F1.1

#### Antenna

75 ohm external terminal for VHF/UHF

#### **Television System**

NTSC, American TV Standard

#### **Channel Coverage**

VHF: 2-13/UHF: 14-69/DTV: 1-999/CATV: 1-125

#### Screen Size (measured diagonally)

51 inches (KDP-51WS550) 57 inches (KDP-57WS550) 65 inches (KDP-65WS550)

#### **Supplied Accessories**

Remote Control RM-Y192 Batteries (2) size AA (R6)

#### **Optional Accessories**

A/V Cable (VMC-810/820/830 HG) Audio Cable (RKC-515HG) Component Video Cable (VMC-10/30 HG) Control S Cable (RK-G69HG)

i.LINK cables: VMC-IL4415 (4-pin to 4 pin, 1.5 meters); VMC-IL4435 (4-pin, 3.5 meters)

#### **WARNINGS AND CAUTIONS**

#### CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

#### **WARNING!!**

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.



Components identified by shading and  $\triangle$  mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

#### **ATTENTION!!**

Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

Afin d'eviter tout risque d'electrocution provenant d'un chássis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le chássis de ce récepteur est directement raccordé à l'alimentation du secteur.



Les composants identifies par une trame et par une marque  $\triangle$  sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

#### **SAFETY CHECK-OUT**

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

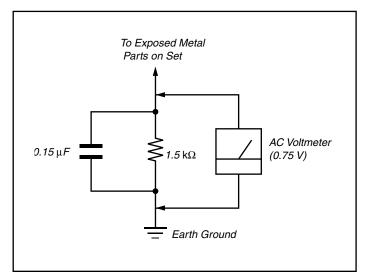


Figure A. Using an AC voltmeter to check AC leakage.

#### Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

#### How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

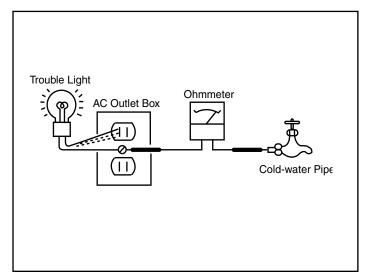


Figure B. Checking for earth ground.

### **SELF-DIAGNOSTIC FUNCTION**



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

#### **Diagnostic Test Indicators**

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred.

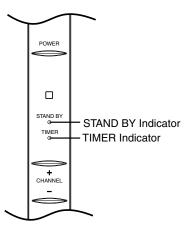
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		<ul><li>Power cord is not plugged in.</li><li>Fuse is burned out (F6000). (A Board)</li></ul>	<ul><li>Power does not come on.</li><li>No power is supplied to the TV.</li><li>AC Power supply is faulty.</li></ul>
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	H.OUT (Q5001) is shorted. (D Board)     +B PWM (Q5201) is shorted.     (D Board)	<ul><li>Power does not come on.</li><li>Load on power line shorted.</li></ul>
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	IC6503 is faulty. (D Board)	Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	15V is not supplied. (D Board)     IC5101 is faulty. (D Board)	<ul> <li>Has entered standby mode after Horizontal raster.</li> <li>Vertical deflection pulse is stopped.</li> <li>Power line is shorted or power supply is stopped.</li> </ul>
White Balance Failure (not balanced)	5 times	5:0 or 5:1	Video OUT (IC9101, IC9201, IC9301) is faulty. (CR, CG, CB Board) CRT drive (IC0401) is faulty. (MA Board) G2 is improperly adjusted.**	No raster is generated.     CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	<ul> <li>+5 line is overloaded. (A, BM, MA Boards)</li> <li>+5 line is shorted. (A, BM, MA Boards)</li> <li>IC6201 is faulty. (A Board)</li> </ul>	No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1	<ul><li>Q5006 is broken (D Board)</li><li>IC0401 is faulty (MA Board)</li></ul>	No picture
Audio Protection	8 times	8:0 or 8:1	+ or - 22V audio supply is not present—Check PS2001 & PS2000     Audio AMP is damaged IC2000 on A Board	No picture
Zero Crossing Detector	9 times	9:0 or 9:1	<ul> <li>D6166 or D6114 is open (A Board)</li> </ul>	No picture
HV Protection	10 times	10:0 or 10:1	Q8014 or Q8013 have shorted replace along with R8051 on D Board     IC8005 is damaged (D Board)	No picture

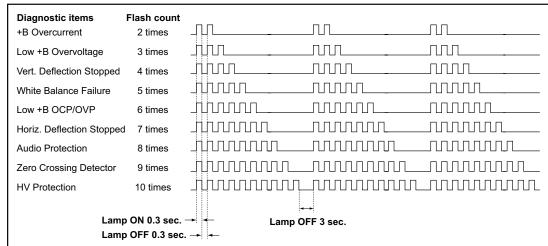
<sup>\*</sup> If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

<sup>\*\*</sup> Refer to Screen (G2) Adjustment (Fine Adjustments) in Section 2 of this manual.

<sup>\*\*\*</sup> If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

#### Display of Standby/Timer LED Flash Count





#### Release of TIMER STAND BY indicator blinking

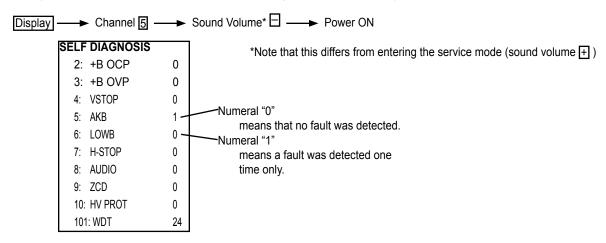
The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

#### Self-Diagnosis Screen Displays

In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

#### **Screen Display Method**

Quickly press the remote command button in the following order from the standby state.



#### Self-Diagnosis Screen Display

The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".

If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

#### **Method of Clearing Results Display**

1. Power off (Set to the stand by mode.)

3. Channel 8 ---- ENTER (Test reset = Factory preset condition)

#### Method of Ending Self Diagnosis Screen

When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

#### **Self-Diagnosis Function Operation**

#### +B overcurrent (OCP)

Occurs when excessive current flows through R6812. The increase in voltage across Q6803 causes it to turn on which sends a high signal to the micro.

#### +B overvoltage (OVP)

IC6801 detects +B OVP condition and turns on Q6802. This sends a high signal to the micro and also shuts down the AC relay.

#### V-STOP

Occurs when an absence of the vertical deflection pulse is detected by pin 56 of IC0401 (MA Board). Power supply will shut down when waveform interval exceeds 2 seconds.

#### White Balance Failure

If the RGB levels\* do not balance within 2 seconds after the power is turned on, this error will be detected by IC0401. TV will stay on, but there will be no picture.

\*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

#### Low B OCP/OVP

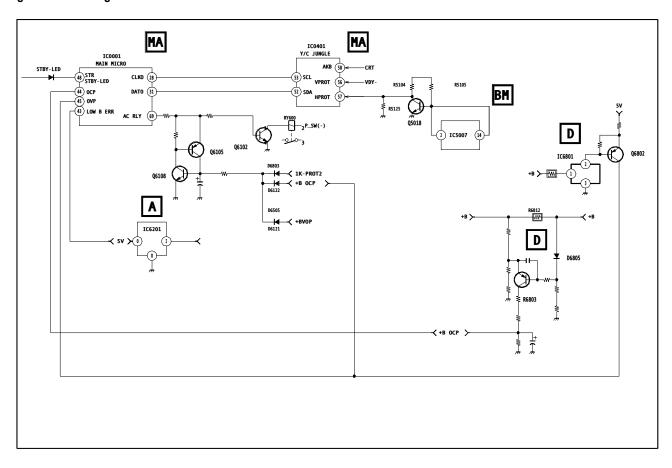
Occurs when set 5V is out.

#### **Horizontal Deflection Stopped**

Occurs when either:

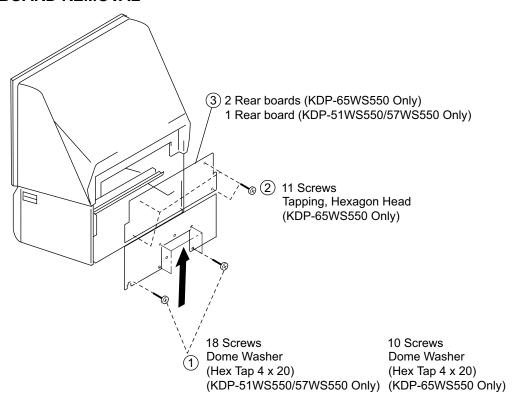
- 1) a +B overcurrent is detected (Q6803), or
- 2) IC0401 (MA Board) is damaged.

#### Self-Diagnosis Block Diagram

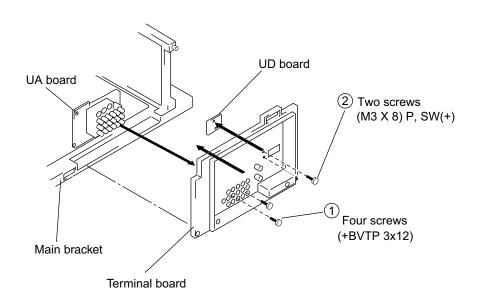


### **SECTION 1: DISASSEMBLY**

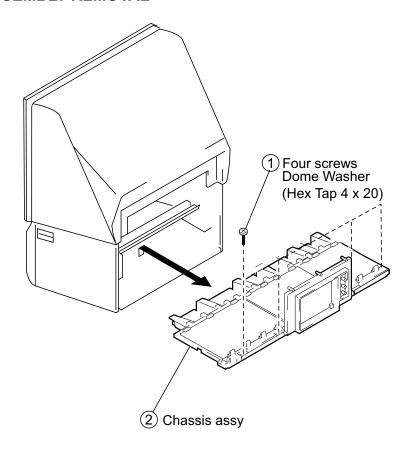
#### 1-1. REAR BOARD REMOVAL



#### 1-2. TERMINAL BOARD AND UD BOARD REMOVAL



#### 1-3. CHASSIS ASSEMBLY REMOVAL



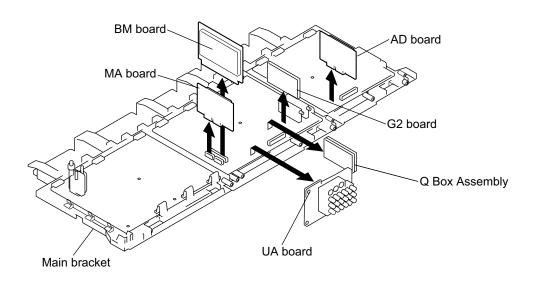
#### 1-4. SERVICE POSITION

1 Free wiring from purse locks.
NOTE: Observe wire dress
and return to original condition.
2 Covers
Remove covers from chassis assembly
with pliers when checking printed circuit boards.
After checking, turn the covers over
and re-secure them with the screws.

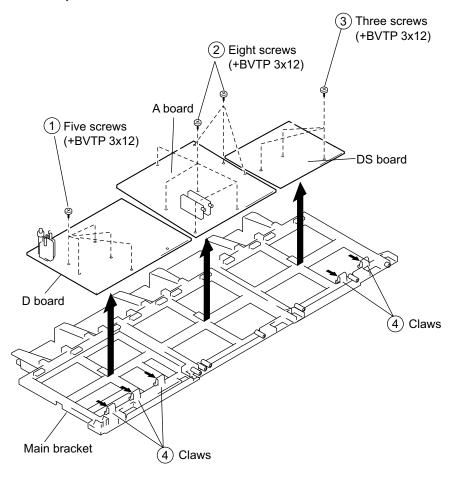
Chassis assembly

Screws
(+BVTP 3x12)

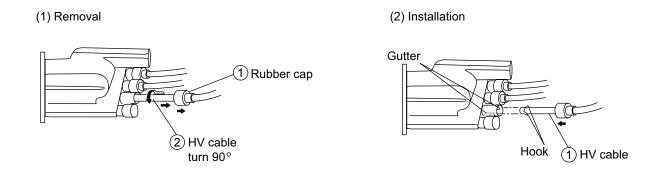
## 1-5. MA BOARD, BM BOARD, G2 BOARD, AD BOARD, Q BOX ASSEMBLY, AND UA BOARD REMOVAL



#### 1-6. D BOARD, A BOARD, AND DS BOARD REMOVAL

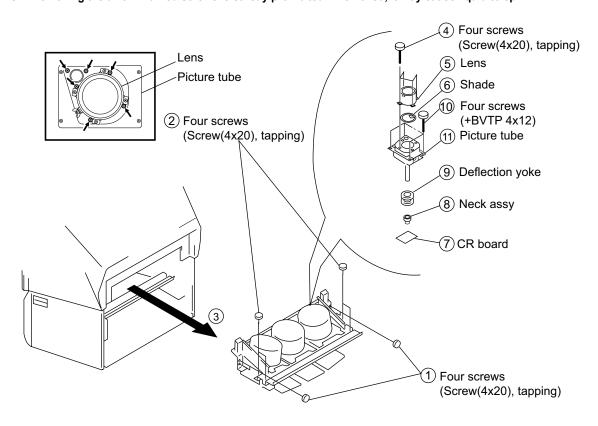


#### 1-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

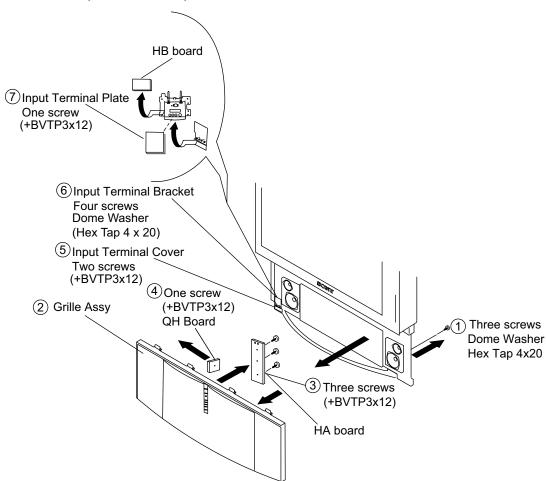


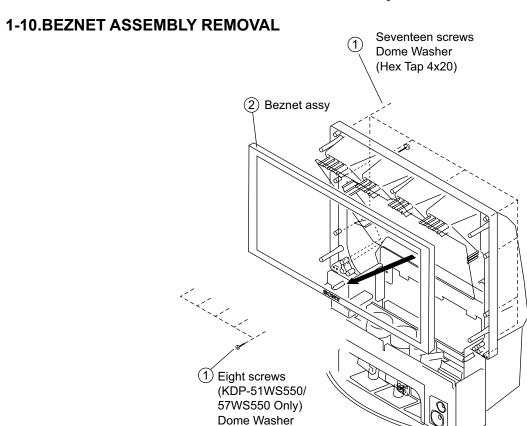
#### 1-8. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid to spill.



### 1-9. GRILLE, HA BOARD, QH BOARD, AND HB BOARD REMOVAL

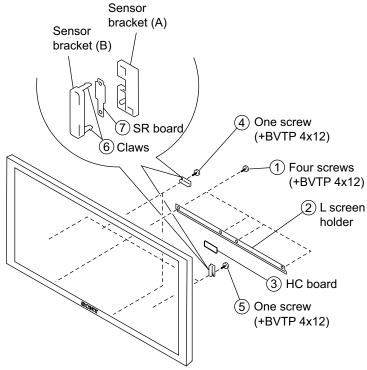




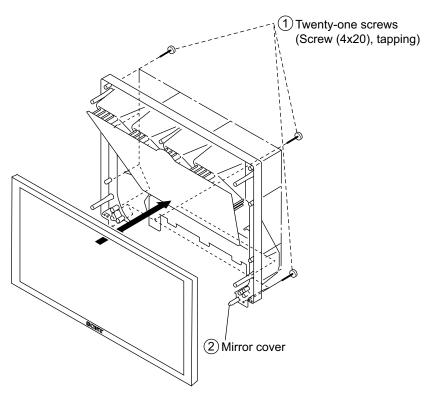
(Hex Tap 4x20)

#### 1-11.SR BOARD REMOVAL

The Screen Holder does not need to be removed in order to remove the SR boards.



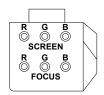
### 1-12.MIRROR COVER REMOVAL (KDP-51WS550/57WS550 ONLY)



#### **SECTION 2: SET-UP ADJUSTMENTS**

## 2-1. SCREEN VOLTAGE ADJUSTMENT (G2) (COARSE ADJUSTMENT)

- 1. Receive the Monoscope signal.
- 2. Set BRIGHTNESS to 50% and PICTURE to minimum.
- Turn the red VR on the focus block all the way to the left and then gradually turn it to the right until the retrace line is barely visible.
- 4. Gradually turn the control to the left until the retrace line disappears.

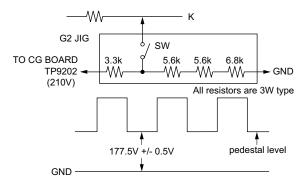


**FOCUS Block** 

## 2-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

If the jig described below is available, it is recommended that the G2 Fine Mode Adjustment be performed to set the screen controls to their optimal condition. If desired, you can build the jig illustrated below, using 3-watt resistors. Please note that if the proper voltage is not obtained with the listed resistor's values, then increase or decrease one of the values in the resistor network to obtain the correct voltage.

- 1. Select VIDEO-1 mode no signal applied (the screen must be black).
- 2. Connect the G2 JIG.
- 3. SW on JIG.
- 4. Connect an oscilloscope to the TP9101(KR), TP9201(KG) and TP9301(KB) of CR board, CG board, and CB board.
- Adjust red, green, and blue screen voltage to 177.5+/-0.5V with screen VR on the focus block.

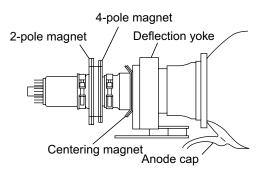


#### 2-3. DEFLECTION YOKE TILT ADJUSTMENT

- 1. Connect the color bar generator monoscope pattern to Video 1 input.
- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Loosen the CRT's deflection yoke set screw and align the tilt of the deflection yoke so that the horizontal bars at the center of the cross-hatch pattern are parallel to the top and bottom edges of the screen.
- 4. After aligning the deflection yoke fasten it securely to the funnel-shaped portion (neck) of the CRT.
- Cover the green and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the red CRT.

Cover the green and red CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the blue CRT.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.



#### 2-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander while in service mode. For details on the usage of the service mode and the remote commander, please refer to section

2-10. ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER.

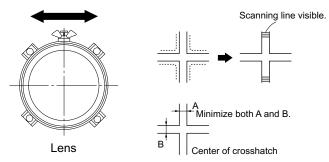
- 1. Loosen the lens screw.
- 2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
- 4. Tighten the lens screw.
- Cover the green and blue CRT lenses with the lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the red lens to adjust to the optimum focus point with the crosshatch signal.
- 7. Tighten the lens screw.
- 8. Cover the green and red CRT lenses with the lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the blue lens to adjust to the optimum focus point with the crosshatch signal.
- 10. Tighten the lens screw.
- 11. After adjusting the items:
  - 2-5. FOCUS VR ADJUSTMENT,
  - 2-7. 2-POLE MAGNET ADJUSTMENT,
  - 2-8. 4-POLE MAGNET ADJUSTMENT,

reconfirm the optimum focus point and adjust again if necessary.

\* In PJE mode, every time 6 is pressed, the test signal changes to: "crosshatch+video signal" → "crosshatch+borderline (black)" → "crosshatch (black)" → "dots (black)" → "all white" → off



Test Signal



**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

#### 2-5. FOCUS VR ADJUSTMENT

- 1. Set generator to crosshatch.
- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- Cover the green and blue picture lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- 6. Cover the green and red picture lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- 8. After adjusting the items:
  - 2-4. FOCUS LENS ADJUSTMENT,
  - 2-7. 2-POLE MAGNET ADJUSTMENT,
  - 2-8. 4-POLE MAGNET ADJUSTMENT.

reconfirm the optimum focus point and adjust again if necessary.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.



**FOCUS Block** 

#### 2-6. CENTERING MAGNET ADJUSTMENT

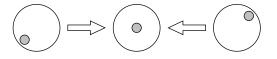
- 1. Set the mode to PRO.
- 2. Receive the monoscope signal.
- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Adjust the green CRT's centering magnet to put the center of the monoscope signal to the center of the screen.
- 5. Repeat steps 1 through 4 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red centering magnet.
- 6. Repeat steps 1 through 4 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue centering magnet.
- 7. After 2-Pole and 4-Pole adjustment, entering magnet adjustment needs to be confirmed. If centering magnet is re-adjusted, then 2-Pole magnet will need to be confirmed.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

#### 2-7. 2-POLE MAGNET ADJUSTMENT

- 1. Set the mode to PRO and picture to MAX.
- 2. Receive the 100IRE 1080i Dot signal.
- 3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the focus VR on the focus block to the left (counter clockwise) and set it to overfocus to enlarge the spot.
- Adjust the CRT's 2-pole magnet so that the small bright spot is in the center
- 6. Align the focus VR on the focus block and set it for the best focus.
- 7. Repeat steps 1 through 6 for the red CRT covering the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
- 8. Repeat steps 1 through 6 for the blue CRT covering the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

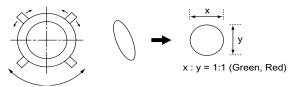


#### 2-8. 4-POLE MAGNET ADJUSTMENT

- 1. Set the mode to VIVID and WIDE mode = Zoom, VM:Off.
- 2. Receive the 100IRE 1080i Dot signal.
- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Turn the (green) focus VR on the focus block to the right (clockwise) and set it to under-focus to reduce the spot.
- 5. Adjust the 4-pole magnet so that the small spot in the center of the screen becomes round for green and red.
- 6. Adjust the blue spot to an oval shape X:Y=1:1
- 7. Repeat steps 1 through 6 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
- 8. Repeat steps 1 through 6 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

Use the center dot

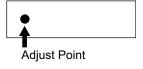


### 2-9. DEFOCUS ADJUSTMENT (BLUE)

**Note:** Adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

- 1. Set the mode to PRO, PICTURE: Max, COLOR TEMP: Cool.
- 2. Receive the 100IRE 1080i Dot signal.
- Cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 4. Turn the blue focus VR on the focus block to the right (clockwise) until blue spot is in focus.
- 5. Change mode to VIVID to confirm Flare level is minimal using cross hatch signal.
- 6. Set the generator to an all white signal and check uniformity.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.



## 2-10.ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

All of the circuit adjustments can be made by using the remote commander (RM-Y192).

Note: The following test equipment is required:

- 1. Pattern Generator (with component outputs)
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio oscillator

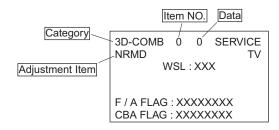
## 2-10-1.METHOD OF ENTERING THE SERVICE ADJUSTMENT MODE

#### SERVICE MODE PROCEDURE

- 1. TV must be in Standby mode. (Power off)
- Press "DISPLAY", "5", "VOL +", then "POWER" on the remote commander.

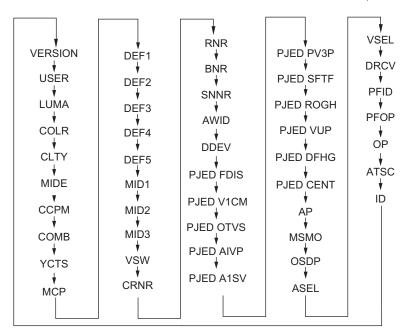
(Press each button within 1 second of pressing the previous button.)

#### SERVICE MODE ADJUSTMENT



- 3. The screen displays the item being adjusted within that category.
- 4. Press 1 or 4 on the remote commander to select the adjustment item
- 5. Press 3 or 6 on the remote commander to change the data
- Press 2 or 5 on the remote commander to select the adjustment category

Every time you press 2 (Category up), service mode changes in the order shown below:



- If you want to go back to the most recently saved value, press "0" then "ENTER" to read the memory.
- 8. Press "MUTING" then "ENTER" to write the new adjustment data into memory.
- 9. Turn power off when you want to exit the service mode.

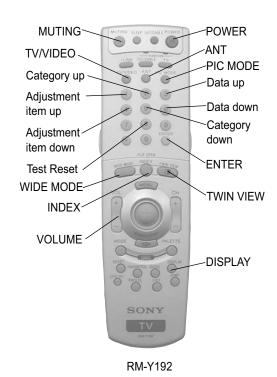
**Note:** Press "8" then "ENTER" on the remote commander to restore the factory settings for user controls and channel memories (this will also turn set off and then on to exit the service mode).

## 2-10-2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, turn the power off with the remote commander.
- 2. Turn the power ON and set to service mode.
- 3. Cycle through the adjusted items again and confirm that the adjustments were saved.

### 2-10-3. ADJUSTING BUTTONS AND INDICATOR

**Note:** When the PJE mode (which displays an internally generated signal) is activated, several buttons on the remote commander will have different functions than the ones listed below. Therefore, when in the PJE mode, refer to section 2-12-3 for button functions.



### 2-11.ADJUSTABLE SERVICE DATA LISTS

Only the Adjustable registers are shown in the initial data list.

A complete set of the Initial data, Fixed and Adjustable, can be downloaded at: <a href="http://www-ec.sdp.sel.sony.com/padics/Model\_Data\_List.htm">http://www-ec.sdp.sel.sony.com/padics/Model\_Data\_List.htm</a> Initial data can is also available in an Excel format. Please contact Nita Wardlaw at Nita.Wardlaw@am.sony.com with your request.

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	Z	MAX
OP	5	OSDH	OSD Horizontal Position	(common)	21	21	21	0	255
	6	OSDF	OSD Favorite Position	(common)	28	28	28	0	63
ССРМ	1	YLEV	Y Level	RF - 60HZ	205	205	205	0	255
				CV - 60HZ	190	190	190	0	255
	2	CLEV	C Level	RF - 60HZ	110	110	110	0	255
				CV - 60HZ	103	103	103	0	255
	3	SHUE	Sub Hue	RF - 60HZ	7	7	7	0	15
				CV - 60HZ	7	7	7	0	15
YCTS	2	SCON	Sub Contrast	RF	9	9	9	0	15
(CXA2163)				OTHER	6	6	6	0	15
	3	SCOL	Sub Color	RF	6	6	6	0	15
				OTHER	5	5	5	0	15
	4	SHUE	Sub Hue	RF	3	3	3	0	15
				OTHER	5	5	5	0	15
MCP	9	CBOF	Cb Offset	DRC - RF/BS/CV/YC	31	31	31	0	63
	10	CROF	Cr Offset	DRC - RF/BS/CV/YC	30	30	30	0	63
DEF1	0	VPOS	Vertical Position	COMMON	25	25	25	0	63
	1	VSIZ	Vertical Size	COMMON	31	31	31	0	63
DEF2	2	HSIZ	Horizontal Size	WIDEZOOM	24	24	24	0	63
				OTHER	24	24	24	0	63
	3	SLIN	S Linearity	WIDEZOOM	7	7	7	0	15
				OTHER	7	7	7	0	15
COLR	2	RDRV	Red Drive Gain	COMMON	38	38	38	0	63
	4	BDRV	Blue Drive Gain	COMMON	23	23	23	0	63
	5	RCUT	Red cut-off	COMMON	23	23	23	0	63
	7	BCUT	Blue cut-off	COMMON	27	27	27	0	63
	8	SBRT	Sub Bright	COMMON	23	23	23	0	63

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	Z	МАХ
PJE	93	R0GH	Ratio Offset S0 G H	(common)	0	0	0	-128	127
	94	R0RH	Ratio Offset S0 R H	(common)	0	0	0	-128	127
	95	R0BH	Ratio Offset S0 B H	(common)	0	0	0	-128	127
	96	R1GH	Ratio Offset S1 G H	(common)	0	0	0	-128	127
	97	R1RH	Ratio Offset S1 R H	(common)	0	0	0	-128	127
	98	R1BH	Ratio Offset S1 B H	(common)	0	0	0	-128	127
	99	R2GH	Ratio Offset S2 G H	(common)	0	0	0	-128	127
	100	R2RH	Ratio Offset S2 R H	(common)	0	0	0	-128	127
	101	R2BH	Ratio Offset S2 B H	(common)	0	0	0	-128	127
	102	R3GH	Ratio Offset S3 G H	(common)	0	0	0	-128	127
	103	R3RH	Ratio Offset S3 R H	(common)	0	0	0	-128	127
	104	R3BH	Ratio Offset S3 B H	(common)	0	0	0	-128	127
	105	R1GV	Ratio Offset S1 G V	(common)	0	0	0	-128	127
		R1RV	Ratio Offset S1 R V	(common)	0	0	0	-128	127
		R1BV	Ratio Offset S1 B V	(common)	0	0	0	-128	127
	108	R2GV	Ratio Offset S2 G V	(common)	0	0	0	-128	127
		R2RV	Ratio Offset S2 R V	(common)	0	0	0	-128	127
		R2BV	Ratio Offset S2 B V	(common)	0	0	0	-128	127
		PTRH	Pattern Offset Top R H	(common)	0	0	0	-128	127
		PTBH	Pattern Offset Top B H	(common)	0	0	0	-128	127
		PLRH	Pattern Offset Left R H	(common)	0	0	0	-128	127
		PLBH	Pattern Offset Left B H	(common)	0	0	0	-128	127
		PLRV	Pattern Offset Left R V	(common)	0	0	0	-128	127
		PLBV	Pattern Offset Left B V	(common)	0	0	0	-128	127
		PRRH	Pattern Offset Right R H	(common)	0	0	0	-128	127
		PRBH	Pattern Offset Right B H	(common)	0	0	0	-128	127
		PRGV	Pattern Offset Right G V	(common)	0	0	0	-128	127
		PRRV	Pattern Offset Right R V	(common)	0	0	0	-128	127
		PRBV	Pattern Offset Right B V	(common)	0	0	0	-128	127
		PBGH	Pattern Offset Bottom G H	(common)	0	0	0	-128	127
		PBRH	Pattern Offset Bottom R H	(common)	0	0	0	-128	127
		PBBH	Pattern Offset Bottom B H	(common)	0	0	0	-128	127
	125	ERR	Auto Regi Error Code	(common)	0	0	0	0	255
		VUP	Auto Regi V Upper Pattern Position	,	50	50	50	0	2047
	131	VMID	Auto Regi V Middle Pattern Position	(common)	495	495	495	0	2047
	132	VLOW	Auto Regi V Lower Pattern Position	(common)	947	947	947	0	2047
	133	HLE	Auto Regi H Left Pattern Position	(common)	181	181	181	0	2047
	134	HMID	Auto Regi H Middle Pattern Position	(common)	853	853	853	0	2047
	135	HRIT	Auto Regi H Right Pattern Position	(common)	1522	1522	1522	0	2047

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	Z	МАХ
PJE	141	CENT	R H Cent	Full / Normal	40	40	40	-512	511
				Zoom / V.Comp	40	40	40	-512	511
				WideZoom	40	40	40	-512	511
				1080i Full	40	40	40	-512	511
				1080i V.Comp	40	40	40	-512	511
			R V Cent	Full / Normal	20	20	20	-512	511
				Zoom / V.Comp	20	20	20	-512	511
				WideZoom	20	20	20	-512	511
				1080i Full	20	20	20	-512	511
				1080i V.Comp	20	20	20	-512	511
			G H Cent	Full / Normal	40	40	40	-512	511
				Zoom / V.Comp	40	40	40	-512	511
				WideZoom	40	40	40	-512	511
				1080i Full	40	40	40	-512	511
				1080i V.Comp	40	40	40	-512	511
			G V Cent	Full / Normal	20	20	20	-512	511
				Zoom / V.Comp	20	20	20	-512	511
				WideZoom	20	20	20	-512	511
				1080i Full	20	20	20	-512	511
				1080i V.Comp	20	20	20	-512	511
			B H Cent	Full / Normal	40	40	40	-512	511
				Zoom / V.Comp	40	40	40	-512	511
				WideZoom	40	40	40	-512	511
				1080i Full	40	40	40	-512	511
				1080i V.Comp	40	40	40	-512	511
			B V Cent	Full / Normal	20	20	20	-512	511
				Zoom / V.Comp	20	20	20	-512	511
				WideZoom	20	20	20	-512	511
				1080i Full	20	20	20	-512	511
				1080i V.Comp	20	20	20	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	NIM	MAX
PJE	142	SIZE	R H Size	Full / Normal	-120	-120	-120	-512	511
				Zoom / V.Comp	-120	-120	-120	-512	511
				WideZoom	-120	-120	-120	-512	511
				1080i Full	-120	-120	-120	-512	511
				1080i V.Comp	-120	-120	-120	-512	511
			R V Size	Full / Normal	-80	-80	-80	-512	511
				Zoom / V.Comp	-80	-80	-80	-512	511
				WideZoom	-80	-80	-80	-512	511
				1080i Full	-80	-80	-80	-512	511
				1080i V.Comp	-80	-80	-80	-512	511
			G H Size	Full / Normal	-120	-120	-120	-512	511
				Zoom / V.Comp	-120	-120	-120	-512	511
				WideZoom	-120	-120	-120	-512	511
				1080i Full	-120	-120	-120	-512	511
				1080i V.Comp	-120	-120	-120	-512	511
			G V Size	Full / Normal	-80	-80	-80	-512	511
				Zoom / V.Comp	-80	-80	-80	-512	511
				WideZoom	-80	-80	-80	-512	511
				1080i Full	-80	-80	-80	-512	511
				1080i V.Comp	-80	-80	-80	-512	511
			B H Size	Full / Normal	-120	-120	-120	-512	511
				Zoom / V.Comp	-120	-120	-120	-512	511
				WideZoom	-120	-120	-120	-512	511
				1080i Full	-120	-120	-120	-512	511
				1080i V.Comp	-120	-120	-120	-512	511
			B V Size	Full / Normal	-80	-80	-80	-512	511
				Zoom / V.Comp	-80	-80	-80	-512	511
				WideZoom	-80	-80	-80	-512	511
				1080i Full	-80	-80	-80	-512	511
				1080i V.Comp	-80	-80	-80	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	MIN	МАХ
PJE	143	LIN	R H Lin	Full / Normal	300	300	300	-512	511
				Zoom / V.Comp	300	300	300	-512	511
				WideZoom	300	300	300	-512	511
				1080i Full	300	300	300	-512	511
				1080i V.Comp	300	300	300	-512	511
			R V Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G H Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G V Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Lin	Full / Normal	-300	-300	-300	-512	511
				Zoom / V.Comp	-300	-300	-300	-512	511
				WideZoom	-300	-300	-300	-512	511
				1080i Full	-300	-300	-300	-512	511
				1080i V.Comp	-300	-300	-300	-512	511
			B V Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	MIN	MAX
		SKEW	R H Skew	Full / Normal	0	0	0	-512	511
. • •			Transmi	Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			R V Skew	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G H Skew	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G V Skew	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Skew	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B V Skew	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	Z	MAX
PJE	145	BOW	R H Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			R V Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G H Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G V Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B V Bow	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	Z	МАХ
PJE	146	KEY	R H Key	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			R V Key	Full / Normal	130	130	130	-512	511
				Zoom / V.Comp	130	130	130	-512	511
				WideZoom	130	130	130	-512	511
				1080i Full	130	130	130	-512	511
				1080i V.Comp	130	130	130	-512	511
			G H Key	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G V Key	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Key	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B V Key	Full / Normal	-130	-130	-130	-512	511
				Zoom / V.Comp	-130	-130	-130	-512	511
				WideZoom	-130	-130	-130	-512	511
				1080i Full	-130	-130	-130	-512	511
				1080i V.Comp	-130	-130	-130	-512	511

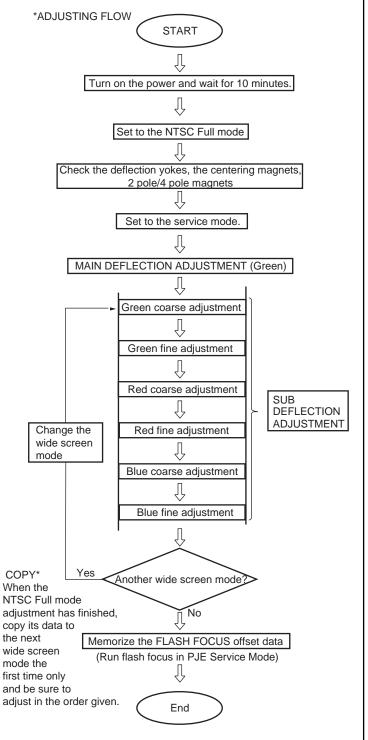
CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550	NIM	МАХ
	147		R H Pin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			R V Pin	Full / Normal	380	380	380	-512	511
				Zoom / V.Comp	380	380	380	-512	511
				WideZoom	380	380	380	-512	511
				1080i Full	380	380	380	-512	511
				1080i V.Comp	380	380	380	-512	511
			G H Pin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G V Pin	Full / Normal	430	430	430	-512	511
				Zoom / V.Comp	430	430	430	-512	511
				WideZoom	430	430	430	-512	511
				1080i Full	430	430	430	-512	511
				1080i V.Comp	430	430	430	-512	511
			B H Pin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B V Pin	Full / Normal	380	380	380	-512	511
				Zoom / V.Comp	380	380	380	-512	511
				WideZoom	380	380	380	-512	511
				1080i Full	380	380	380	-512	511
				1080i V.Comp	380	380	380	-512	511
	148	MLIN	R H Middle Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G H Middle Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Middle Lin	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
ĺ				1080i Full	0	0	0	-512	511

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	029WS9	MIN	MAX
PJE	149	MSIZ	R H Middle Size	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			G H Middle Size	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511
			B H Middle Size	Full / Normal	0	0	0	-512	511
				Zoom / V.Comp	0	0	0	-512	511
				WideZoom	0	0	0	-512	511
				1080i Full	0	0	0	-512	511
				1080i V.Comp	0	0	0	-512	511

### **2-11-1. ID MAP TABLE**

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	51WS550	57WS550	65WS550
ID	0	ID0	ID Byte 0	(common)	89	89	89
	1	ID1	ID Byte 1	(common)	255	255	255
	2	ID2	ID Byte 2	(common)	239	239	239
	3	ID3	ID Byte 3	(common)	107	107	107
	4	ID4	ID Byte 4	(common)	75	75	75
	5	ID5	ID Byte 5	(common)	243	243	243
	6	ID6	ID Byte 6	(common)	255	255	255
	7	ID7	ID Byte 7	(common)	27	27	27

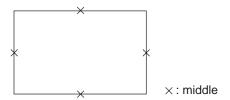
## 2-12.REGISTRATION ADJUSTMENT (PJE MODE ONLY)



#### 2-12-1. SETUP FOR ADJUSTMENT

#### **MARKING**

 At the 4 sides of the screen, locate the middle. Use a tape measure to identify the middle.



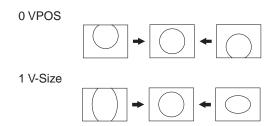
#### **DATA SETTING**

- 1. Set NTSC Full mode.
- 2. Enter the service mode, and select "PJE".

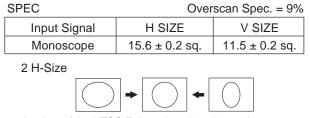
#### 2-12-2. MAIN DEFLECTION ADJUSTMENT

**NOTE:** Before this adjustment, refer to section 2-11 SERVICE DATA LISTS for PJE item #141-149 input data.

- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 2. Enter the monoscope signal and set to NTSC Full mode.
- 3. Enter the service mode, and select "DEF1".
- Adjust "0 VPOS" and "1 VSIZ" so that the picture is displayed in the center of the screen.

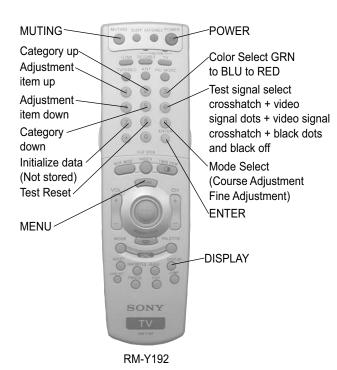


5. Select "DEF2" and adjust "2 H-Size" so that the picture size is within the specification.



Copy the data of the NTSC Full mode to the other wide screen mode and, if necessary, adjust in the other mode.

## 2-12-3. OPERATION METHOD FOR PROJECTOR ENGINE MODE



#### 1. FUNCTION OF KEYS ON COMMANDER

- Changes adjustment item. (Item # moves up) Marker moves clockwise from center to outside. (In Fine Adjustment mode)
- Changes adjustment item. (Item # moves down)
   Marker moves counter clockwise from outside to center.
   (In Fine Adjustment mode)
- Changes adjustment category. (Category # moves up)
- Changes adjustment category. (Category # moves down)

#### **Joystick**

Changes data value. (Up or down)

Marker moves clockwise from center (up, down, right, and then left) to outside. (In Fine Adjustment mode)

- ③ Changes adjustment color. GRN →BLU →RED
- ⑤ Displays or changes internal test signals. crosshatch + external signal → crosshatch + borderline → crosshatch only → dot only → off
- Switches adjustment mode.
   Coarse adjustment model →
   Fine adjustment point mode →
   Fine adjustment row mode →
   Fine adjustment column mode

**Press** Switches marker moving method.

Joystick (In Fine Adjustment mode)

Pressing down on the joystick in Fine Adjustment mode switches between selecting and un-selecting a point.

When a point is selected, the cursor changes to that color to indicate the point is selected and can be adjusted. If a point is not selected the cursor is white.

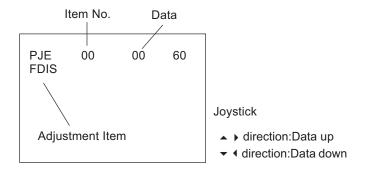
Joystick ▲ ▼ ↓ keys → 1 and 4 buttons

#### **Commander Function**

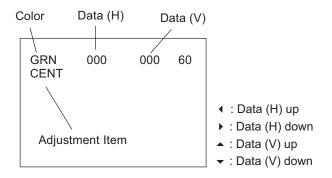
Buttons	Mode	Description
0 + ENTER	READ	Reads data to NVM.
MUTING+ENTER	WRITE	Writes data from NVM.
7 + ENTER	PJE	Service data initialization.
	INITIAL	Not stored.
		(Be sure not to use usually)

#### 2. OPERATION METHOD FOR COARSE ADJUSTMENT

- 1. Enter the service mode and select "PJE".
- 2. Press the "1" or "4" button on the remote commander to select the item, and then use the joystick to change the data.



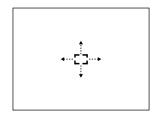
- 3. Select "GRN CENT". When BLU or RED is displayed, press the "3" button on the remote commander to change the adjustment color in the order of GRN →BLU →RED.
- In the GRN, BLU, or RED mode, move the joystick ♠ or ▼ to change the data in vertical direction, or ◀ or ▶ to change the data in a horizontal direction.



5. Before returning to the service mode, press the "MUTING" + "ENTER" buttons on the remote commander to write the data. (You must complete step 5 to write the data. If you omit step 5 the set data is returned to the data prior to the adjustment.)

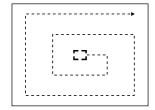
#### 3. OPERATION METHOD FOR FINE ADJUSTMENT

- 1. Enter the service mode and select "PJE".
- 2. Select FDIS and set the data to "01" so that the data at each position can be displayed in fine adjustment mode.
- 3. Press the "9" button on the remote commander and fine adjustment mode will be active where a green marker appears in the center of the screen. (In the case of GRN mode)
- 4. Press down on the joystick, and the marker color will be alternately switched between green (GRN mode) and white.
- 5. Press the "1" or "4" button on the remote commander or use the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.
- When the marker color is white: (in this case, fine adjustment is disabled)



Use the joystick to move the marker up, down, left, or right.

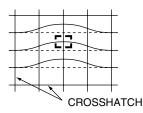
 When the marker color is green: (GRN mode)

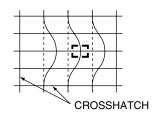


- ① : Moves the marker clockwise from the center to the outside.
- ④ : Moves the marker counter clockwise from the outside to the center.
- \* Fine adjustment can be made on the basis of a marker position using the joystick to move  $\stackrel{\blacktriangle}{-}$  or  $\stackrel{\blacktriangleright}{-}$  .

Move joystick - direction

Move joystick ▶ direction





6. Press the "9" button on the remote commander to return to the coarse adjustment mode.

## 2-13.PJE ADJUSTMENT (SUB DEFLECTION ADJUSTMENT)

	Adjustment type						
Adjustment item	G	R	В				
	H/V*	H/V*	H/V*				
CENT	O/O	0/0	O/O				
SKEW	0/0	O/O	O/O				
SIZE	O/O	0/0	O/O				
LIN	O/O	0/0	O/O				
BOW	O/O	0/0	O/O				
KEY	O/O	0/0	O/O				
PIN	O/O	O/O	O/O				
MLIN	0/—	0/—	O/ <b>—</b>				
MSIZ	0/—	0/-	O/ <del>-</del>				

<sup>\*</sup> H = Horizontal V = Vertical O = Yes - = No

**Note:** If the value is over the limit value, adjust these in the fine adjustment.

#### **Coarse Data Limit Value:**

CENT H	-135 TO + 205
CENT V	-150 TO + 190
SKEW	-75 TO + 75
SIZE H	-75 MAX
BLUE H LIN	-425 MIN
RED H LIN	+425 MAX
FINE DATA LIMIT	± 107
Except the extreme left & right	nt outside columns which have no limit

#### 2-13-1.ADJUSTMENT FOR NTSC FULL MODE

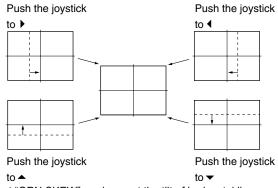
· The adjustment should be done in the numerical order given.

#### 1) GREEN ADJUSTMENT

- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 2. Enter the monoscope signal to set.
- 3. Select the PJE mode.
- 4. Press the "6" button on the remote commander to display the internal test signal (crosshatch).
- Select "GRN CENT", and adjust so that the pictures coincide in the center of screen.

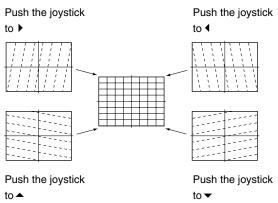
**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

#### **GRN CENT (Horizontally/Vertically)**



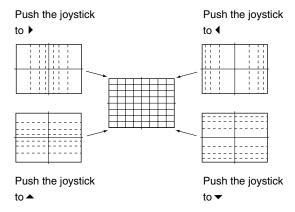
Select "GRN SKEW", and correct the tilt of horizontal lines and vertical lines.

#### **GRN SKEW (Horizontally/Vertically)**



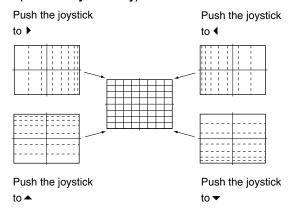
8. Select "GRN SIZE", and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

#### **GRN SIZE (Horizontally/Vertically)**



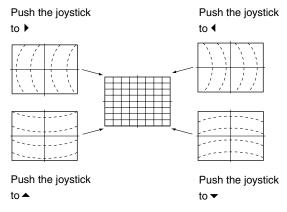
Select "GRN LIN", and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.

#### GRN LIN (Horizontally/Vertically)



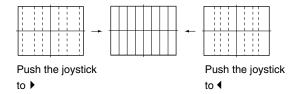
10. Select "GRN BOW", and adjust so that the raster is not curved.

#### **GRN BOW (Horizontally/Vertically)**



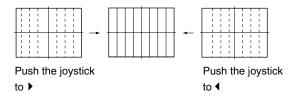
11. Select "GRN MSIZ", and correct the space intervals for the horizontal section so the screen is equal.

#### **GRN MSIZ (Horizontally)**



12. Select "GRN MLIN", and correct the sizes of the horizontal line so the center of the screen is symmetrical left and right.

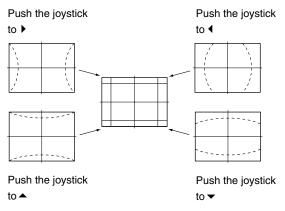
#### **GRN MLIN (Horizontally)**



**Note**: The SIZE and LIN, MSIZ and MLIN adjustments affect each other. If necessary, adjust these mutually.

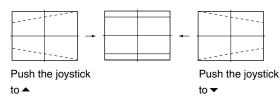
13. Select "GRN PIN", and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.

#### **GRN PIN (Horizontally/Vertically)**



14. Select "GRN KEY", and adjust so that upper and lower horizontal lines on the screen become parallel.

#### **GRN KEY (Vertically)**



**Note**: The VPIN and KEY adjustments affect each other. If necessary, adjust these mutually.

- 15. Press the "9" button on the remote commander to enter fine adjustment mode.
- 16. Make the fine adjustment so that horizontal lines and vertical lines become straight.
- 17. Press the "9" button on the remote commander to return to coarse adjustment mode.

#### 2) RED ADJUSTMENT

- Cover the blue CRT lens with a lens caps to allow only the green and red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- 2. Press the "3" button on the remote commander to select RED mode.
- 3. Adjust the following items so that red lines overlap with green lines.
  - RED CENT (horizontally/vertically)
  - RED SKEW (horizontally/vertically)
  - RED SIZE (horizontally/vertically)
  - RED LIN (horizontally/vertically)
    - RED MSIZ (horizontally)
  - RED MLIN (horizontally)
  - RED PIN (horizontally/vertically)
  - RED KEY (vertically)
- 4. Press the "9" button on the remote commander to enter fine adjustment mode.
- 5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green lines.
- Press the "9" button on the remote commander to return to coarse adjustment mode.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

#### 3) BLUE ADJUSTMENT

- 1. Remove the lens cap from the blue picture lens to display all colors.
- 2. Press the "3" button on the remote commander to select BLU mode.
- 3. Adjust the following items so that blue lines overlap with green lines.
  - BLU CENT (horizontally/vertically)
  - BLU SKEW (horizontally/vertically)
  - BLU SIZE (horizontally/vertically)
  - BLU LIN (horizontally/vertically)
  - BLU PIN (horizontally/vertically)
  - BLU KEY (vertically)
- 4. Press the "9" button on the remote commander to enter fine adjustment mode.
- 5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green and red lines.
- Press the "9" button on the remote commander to return `to coarse adjustment mode.

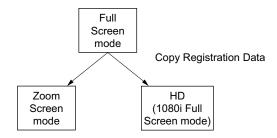
**Note:** When replacing CRTs, adjust the set-up adjustments (2-1 to 2-9) and the registration adjustment (2-12). When replacing multiple CRTs at the same time, replace and adjust them individually.

#### 4) REGISTRATION DATA WRITING

 After completing each adjustment of green, blue, and red for the NTSC Full mode press the "MUTING"+ "ENTER" buttons in PJE service mode on the remote commander to write the registration data to the NVM.

#### 2-13-2. COPYING ALL REGISTRATION DATA TO OTHER MODES

- 1. Make sure that the adjustment for NTSC Full mode are complete and the data have already been written.
- 2. Select the PJE mode.
- Select Copy and set the data to "01", and press the "MUTING"+"ENTER" buttons on the remote commander.
- 4. The data from the NTSC Full mode is copied to all other modes.



5. Check in the other modes and adjust as demands.

#### Be sure to write data in each mode.

**Note:** If no 1080i source is available, 1080i data can be displayed by entering Twin mode.

### 2-14.AUTO REGISTRATION OFFSETS

#### **IMPORTANT**

This adjustment must be performed after registration adjustment or after readjustment for any reason!

Once registration in all modes is satisfactory:

- 1. Darken the room environment near the set.
- Select input of RF (with a signal) or Video1 Video4 (with a signal), and enter Full Mode.

#### WARNING: DO NOT USE 1080i SIGNAL!

- 3. Enter service mode and select the PJE group.
- Press the "MUTING" + "ENTER" buttons on the remote commander to write the data for Full mode.

#### Important:

You must complete step 4 even if registration looks OK in Full mode and there were not any adjustments made.

To automatically store the offset values, press the "FLASH FOCUS" button on the front panel of the set.

(The offset value is now stored)

If FLASH FOCUS successfully calibrates, it displays "CALIBRATION OK."

If FLASH FOCUS does not successfully calibrate, an error message is displayed. (Refer to section 2-15)

- 6. Exit the service mode.
- 7. If the calibration was successful, press the "FLASH FOCUS" button out of service mode.
- 8. Confirm registration is OK in all modes.

#### 2-15.AUTO REGISTRATION ERROR CODES

If an error code is displayed after the set has been correctly adjusted, check the following items: position, tilt and sizing. If any of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns are being flashed on the screen for the sensors to read. Therefore, auto registration (called auto convergence) cannot operate properly, causing an error code to be displayed. In order for this function to operate properly, position, tilt and size must be adjusted properly.

#### **ERROR CODE LIST**

ERROR							
CODE	DESCRIPTION	NOTE					
00	No Error						
10	Sensor 0 low output	Check sensor 0, connection/wiring, circuit, and pattern position					
		(are patterns hitting sensor?) adjust 130 VUP, 134 HMID if necessary.					
11	Sensor 1 low output	Check sensor 1, connection/wiring, circuit, and pattern position					
12	Canada Alam antant	(are patterns hitting sensor?) adjust 133 HLE, 131 VMID if necessary.					
	Sensor 2 low output	Check sensor 2, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 135 HRIV, 131 VMID if necessary.					
13	Sensor 3 low output	Check sensor 3, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 132 VLOW, 134 HMID if necessary.					
20	Sensor 0 high output	Check sensor 0 and circuit.					
21	Sensor 1 high output	Check sensor 1 and circuit.					
22	Sensor 2 high output	Check sensor 2 and circuit.					
23	Sensor 3 high output	Check sensor 3 and circuit.					
30	V CENT or SKEW adjustment loop overflow	Check 131 VMID data and check registration condition.					
31	H CENT or SKEW adjustment loop overflow	Check 134 HMID data and check registration condition.					
32	H LIN or SIZE adjustment loop overflow	Check 133 HLE and 135 HRIT data and check registration condition.					
40	V CENT regi data overflow	Check 131 VMID data and confirm V CENT data (all modes) is not near 511.					
41	H CENT regi data overflow	Check 134 HMID data and confirm H CENT data (all modes) is not near 511.					
42	V SKEW regi data overflow	Check 131 VMID data and confirm V SKEW data (all modes) is not near 511.					
43	H SKEW regi data overflow	Check 134 HMID data and confirm H SKEW data (all modes) is not near 511.					
44	H LIN regi data overflow	Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes) is not near 511.					
45	H SIZE regi data overflow	Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes) is not near 511.					
50	V CENT regi data overdrow	Check 131 VMID data and confirm V CENT data (all modes) is not near -512.					
51	H CENT regi data overdrow	Check 134 HMID data and confirm H CENT data (all modes) is not near -512.					
52	V SKEW regi data overdrow	Check 131 VMID data and confirm V SKEW data (all modes) is not near -512.					
53	H SKEW regi data overdrow	Check 134 HMID data and confirm H SKEW data (all modes) is not near -512.					
54	H LIN regi data overdrow	Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes)					
55	H SIZE regi data overdrow	is not near -512.  Check 133 HLE and 135 HRIT data and confirm V CENT data (all modes)					
55	ITT SIZE TEGI data overdrow	is not near -512.					
60	CENT/SKEW calibration loop overflow	Check 134 HMID and 131 VMID data and check registration condition.					
61	SIZE/LIN calibration loop overflow	Check 133 HLE, 135 HRIT, 130 VUP, and 132 VLOW data and check registration condition.					
70	V CENT/SKEW ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 129 RTML.					
71	H CENT/SKEW ratio limit	Check sensors 0 and 3, connection/wiring, circuit, increase 129 RTML.					
73	H SIZE/Lin ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 129 RTML.					
80	SIZE Limit Error	Check that horizontal SIZE data is not near 128 SZLM.					

<sup>\*</sup> In the case of multiple errors, last error is displayed.

#### **SENSOR POSITIONS**

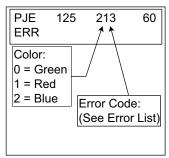
# 1 FRONT OF SCREEN 2

- 0: UPPER SENSOR
- 1: LEFT SENSOR
- 2: RIGHT SENSOR
- 3: LOWER SENSOR

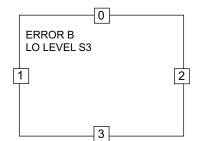
### • ERROR CODE SCREEN DISPLAY

In service mode, the error will be displayed in text format.

Error codes in normal (customer) mode are not displayed. You must enter PJE service mode to see the error code.

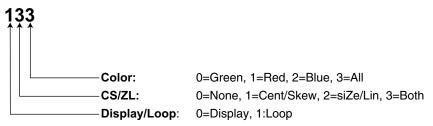


(Blue Sensor 3 Low Output)

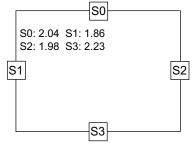


### 2-16.AUTO REGISTRATION DIAGNOSTICS

The TEST service item (PJE #136) can be used to determine if a sensor or sensor amplifier is working properly. It can also be used to check pattern positions.



DISPLAY/ LOOP	CS/ZL	COLOR	ACTION
(0)	0	0	Normal calibration (no diagnostics).
(0)	Χ	Χ	Performs one adjustment cycle, then
			displays average peak voltages for the
			specified CS/ZL and Color.
(0)	3	3	Does nothing (can't display more than one
			CS/ZL or Color at a time.)
1	Χ	Х	Adjusts specified CS/ZL and Color
			until a key is pressed. Useful for
			measuring signals with oscilloscope.



Sensor 0 peak voltage = 2.04 V, etc.

## **SECTION 3: SAFETY-RELATED ADJUSTMENTS**

#### **D BOARD**

# 3-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with a  $\square$  on the schematic diagram always check the HV regulation, and if necessary re-adjust.

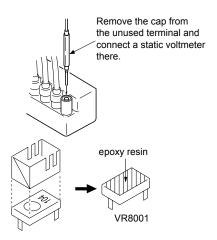
## Part Replaced (

#### D BOARD:

T8001 (RHT), IC8001, IC8002, IC8004, IC8005, IC8104, PH8003, R8008, R8012, R8014, R8015, R8016, R8017, R8019, R8046, R8052, R8060, R8072, R8078, R8079, R8165, D8022

#### **HV REGULATION ADJUSTMENT**

- 1. Receive the all white signal.
- 2. Set PIC MAX/BRT CENT.
- 3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
- 4. Power on the set.
- 5. Receive the all white signal.
- 6. Set PIC MAX/BRT CENT.
- 7. Confirm that the static voltmeter reading is  $31.0 \pm 0.4$ V.
- 8. If not, adjust with VR8001 to the specified value.
- 9. After adjustment, put the VR cover on VR8001 (as shown below) and apply sufficient amount of epoxy resin around VR8001.



# 3-2. HV HOLD DOWN CIRCUIT OPERATION CHECK

When replacing the following components marked with a  $\square$  on the schematic diagram always check the hold-down operation.

#### Part Replaced ( )

#### D BOARD:

T8001 (RHT), IC8002, IC8004, IC8005, PH8003, R8012, R8014, R8015, R8017, R8027, R8029, R8030, R8031, R8035, R8036, R8037, R8038, R8039, R8040, R8041, R8043, R8082, R8060, Q8007, Q8008

#### **OPERATION CHECK**

- 1. Receive any source.
- Using an external DC supply, apply 5 VDC to pin 3 of CN1504 on UA Board. Set will shutdown.

#### **G BOARD**

### 3-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6503 R6590.

- 1. Supply 130VAC to variable autotransformer.
- Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
- 3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
- 4. If step 3 is not satisfied, replace IC6503 and repeat steps 1-3.

### 3-4. +B OVP CONFIRMATION

- 1. Turn on set.
- 2. Set input conditions.
- 3. Turn off set.
- 4. Separate R6809 (D Board) from +135.
- 5. Apply external 145 ± 1V DC to open end of R6809.
- 6. Turn on set.
- Measure voltage at Pin + of CN5007 (D Board). Voltage should be less than 0.8V.

#### **Input Conditions**

Input Voltage: 120VAC

Input Signal: Dot pattern NTSC

Video Controls: PICTURE set to minimum

BRIGHTNESS set to minimum

## **SECTION 4: CIRCUIT ADJUSTMENTS**

# 4-1. P & P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON)

1. Receive the signal.

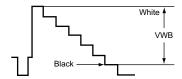
VIDEO 1 terminal Composite: Color-bar

(white-75%, 7.5% setup)

2. VIDEO MODE : Pro
PICTURE : Maximum
COLOR : Minimum
MCP RON = 0

BON = 0

- Set to P & P mode, and receive the color bars in both main and sub (left and right), and set to service mode.
- 4. Connect an oscilloscope between the check point and ground.Check points : UA Board CN1504 pin 6 (G)
- 5. Select "CCPM-YLEV" (Main scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
- 6. Select "YCTS-SCON" (Sub scon), and adjust so that the waveform level of VWB is  $1.75 \pm 0.03 \text{Vp-p}$ .
- After completing the adjustments, write the data into memory by pressing "MUTING" → "ENTER" on the remote commander.



# 4-2. P & P SUB CONTRAST ADJUSTMENT (RF) (SCON)

1. Receive the signal.

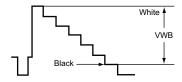
TV terminal RF: Color-bar (white-75%, 7.5% setup)

2. VIDEO MODE : Pro
PICTURE : Maximum
COLOR : Minimum
MCP RON = 0

RON = 0 BON = 0

- 3. Set to P & P mode, and receive the color bars in both main and sub (left and right), and set to service mode.
- 4. Connect an oscilloscope between the check point and ground.

  Check points : UA Board CN1504 pin 6 (G)
- 5. Select "CCPM-YLEV" (Main scon), and adjust so that the waveform level of VWB is 1.75  $\pm$  0.03Vp-p.
- 6. Select "YCTS-SCON" (Sub scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
- 7. After completing the adjustments, write the data into memory by pressing "MUTING" → "ENTER" on the remote commander.



# 4-3. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT VIDEO (SHUE, SCOL)

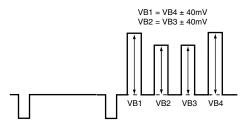
1. Receive the signal.

VIDEO 1 terminal Composite: Color-bar

(white-75%, 7.5% setup)

2. VIDEO MODE : Pro
PICTURE : Maximum
COLOR : Center

- 3. Set to P & P mode, and receive the color bars in both main and sub (left and right), set to service mode.
- Connect an oscilloscope between pin 7 of CN1504 (UA Board) connector and ground.
- 5. Select "CCPM-CLEV, CCPM-SHUE" (Main), and adjust them to have VB1  $\leq$  VB4 and VB2  $\leq$  VB3 in the waveform levels.
- 6. Select "YCTS-SCOL, YCTS-SHUE" (Sub), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
- 7. After completing the adjustments, write the data into memory by pressing "MUTING"  $\rightarrow$  "ENTER" on the remote commander.



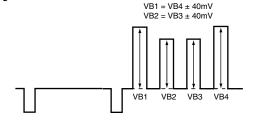
# 4-4. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (RF) (SHUE, SCOL)

1. Receive the signal.

TV terminal : Color-bar (white-75%, 7.5% setup)

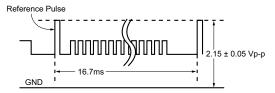
2. VIDEO MODE : Pro
PICTURE : Maximum
COLOR : Center

- 3. Set to P & P mode, and receive the color bars in both main and sub (left and right), set to service mode.
- 4. Connect an oscilloscope between pin 7 of CN1504 (UA Board) connector and ground.
- 5. Select "CCPM-CLEV, CCPM-SHUE" (Main), and adjust them to have VB1  $\leq$  VB4 and VB2  $\leq$  VB3 in the waveform levels.
- Select "YCTS-SCOL, YCTS-SHUE" (Sub), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
- 7. After completing the adjustments, write the data into memory by pressing "MUTING" → "ENTER" on the remote commander.



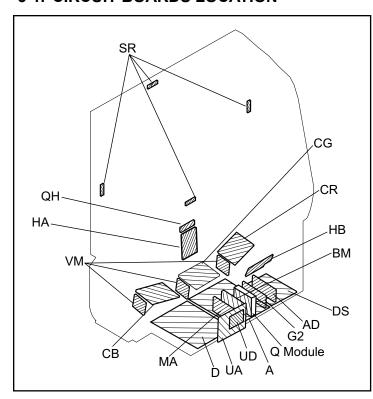
## 4-5. BLUE OFFSET ADJUSTMENT

- Receive the all black (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
- Connect an oscilloscope between CN1504 7 pin (B) on the (UA board) and ground.
- 3. Set in the service mode and select the category "DEF2-SLIN".
- 4. Adjust "3 SLIN" so that the waveform level is  $2.15 \pm 0.05 \text{Vpp}$ .
- 5. After completing the adjustments, write the data into memory by pressing "MUTING" → "ENTER" on the remote commander.
- 6. Receive the RF signal and change the wide screen mode to "Wide Zoom". Copy the same data to "DEF2-SLIN".



#### **SECTION 5: DIAGRAMS**

#### 5-1. CIRCUIT BOARDS LOCATION



## 5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows:

Pitch: 5mm

Rating electrical power: 1/4 W

<sup>1</sup>/<sub>4</sub>W in resistance, <sup>1</sup>/<sub>10</sub>W and <sup>1</sup>/<sub>8</sub>W in chip resistance.

: nonflammable resistor.

: fusible resistor.

Δ : internal component.

: panel designation and adjustment for repair.

上: earth ground

++ : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a NTSC color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S: Measurement impossibillity.

■: B+ line

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by 
in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by 

and repeat the adjustment until the specified value is achieved.

(Refer to adjustments in Sections 3-1 and 3-2.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

#### Part Replaced ( )

#### D BOARD:

T8001 (RHT), IC8001, IC8002, IC8004, IC8005, IC8104, PH8003, R8008, R8012, R8014, R8015, R8016, R8017, R8019, R8046, R8052, R8060, R8072, R8078, R8079, R8165, D8022

#### Part Replaced ( )

#### D BOARD:

T8001 (RHT), IC8002, IC8004, IC8005, PH8003, R8012, R8014, R8015, R8017, R8027, R8029, R8030, R8031, R8035, R8036, R8037, R8038, R8039, R8040, R8041, R8043, R8082, R8060, Q8007, Q8008

#### REFERENCE INFORMATION

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: ★ ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR: TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE : ALR HIGH RIPPLE

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque  $ilde{ ilde{\Delta}}$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole  $\blacksquare$  indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

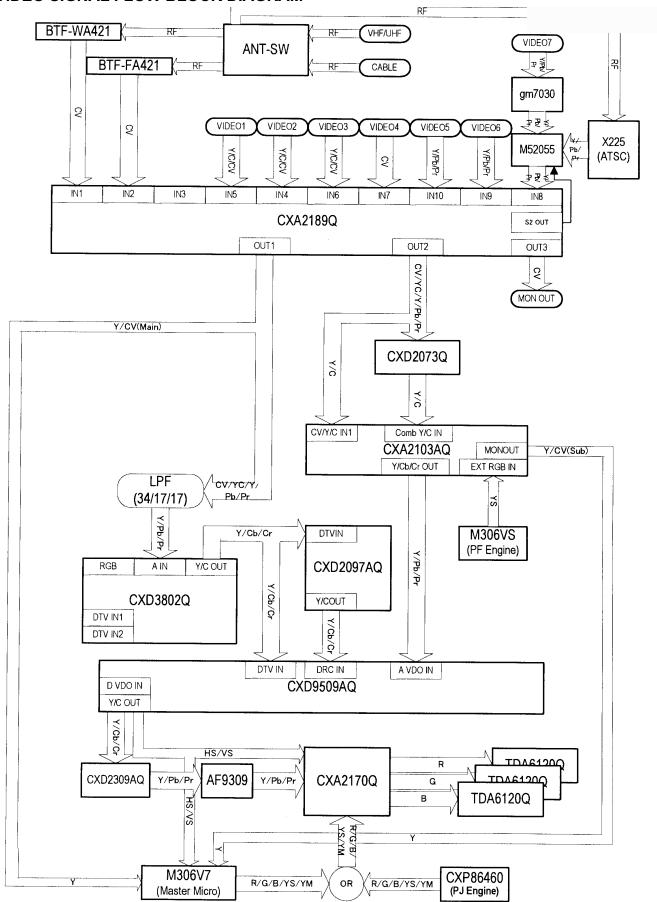
# Terminal name of semiconductors in silk screen printed circuit ( \* )

·	Device	Printed symbol	Terminal name	Circuit		
			Collector			
(1)	Transistor		Base Emitter			
2	Transistor		Collector  Base Emitter			
3	Diode		Cathode Anode	<b>Å</b>		
4	Diode		Cathode Anode (NC)	<u>\$</u>		
(5)	Diode		Cathode  Anode (NC)	<b>↓</b>		
6	Diode		Common Anode Cathode	, , , , , , , , , , , , , , , , , , ,		
7	Diode		Common  Anode Cathode			
8	Diode		Common Anode Anode			
9	Diode		Common  Anode Anode	[ <mark>▶  •   □</mark> ]		
10	Diode		Common Cathode Cathode			
11)	Diode		Common EEE Cathode Cathode			
12	Diode		Anode Cathode Anode Cathode			
13)	Transistor (FET)		Drain Source Gate			
14)	Transistor (FET)		Drain Source Gate	so so		
15)	Transistor (FET)		□ Source □ Drain □ Gate	S S S S S S S S S S S S S S S S S S S		
16)	Transistor		□ Emitter □ Collector □ Base			
17)	Transistor	++	C2 B1 E1 E2 B2 C1	B10 062 B10 0E2		
18)	Transistor	++	C1 B2 E2 E1 B1 C2	C1O OC2 B1O		
19	Transistor		C1 B2 E2 E1 B1 C2	E10 0 E2		
20)	Transistor		C1 B2 E2 E1 B1 C2	B10 OE2 OB2		
21)	Transistor	_	E2 B1 E1 C2 C1(B2)	C1(B2)Q QC2 B1Q QC2 E2Q QE2		
22)	Transistor	_	(B2) B1 E1 E2 C1 C2	B10-C10 OC2		
23)	Transistor		(B2) E2 E1 B1 C2 C1	B10 C10 OC2		
-	Discrete semiconductor					

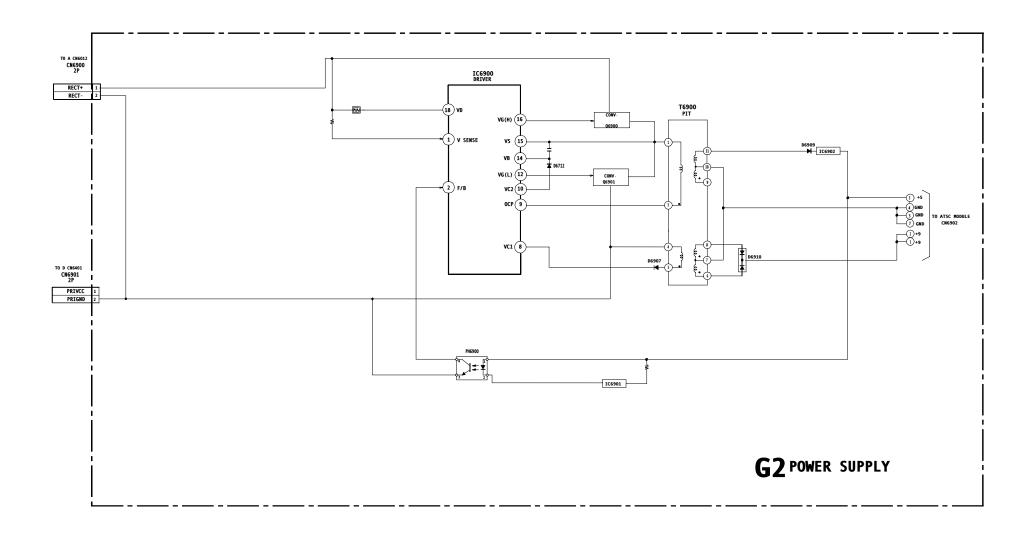
(Chip semiconductors that are not actually used are included.)

### 5-3. BLOCK DIAGRAMS

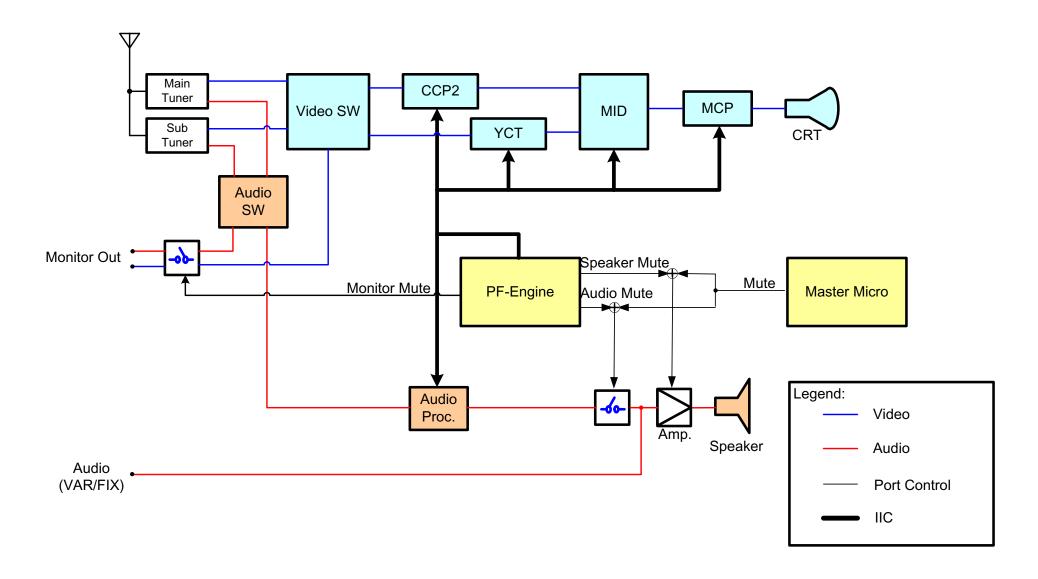
#### **VIDEO SIGNAL FLOW BLOCK DIAGRAM**



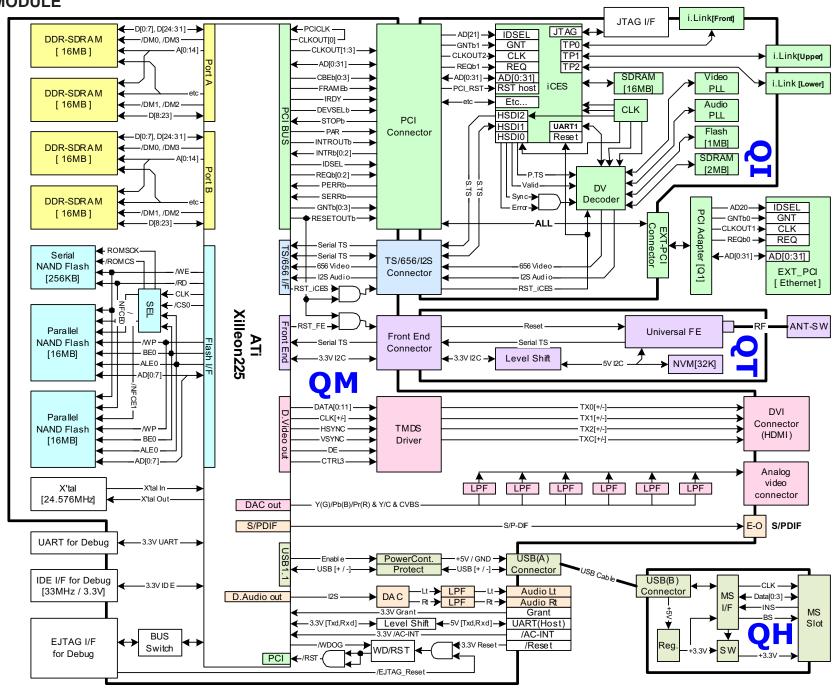
# **POWER SUPPLY**



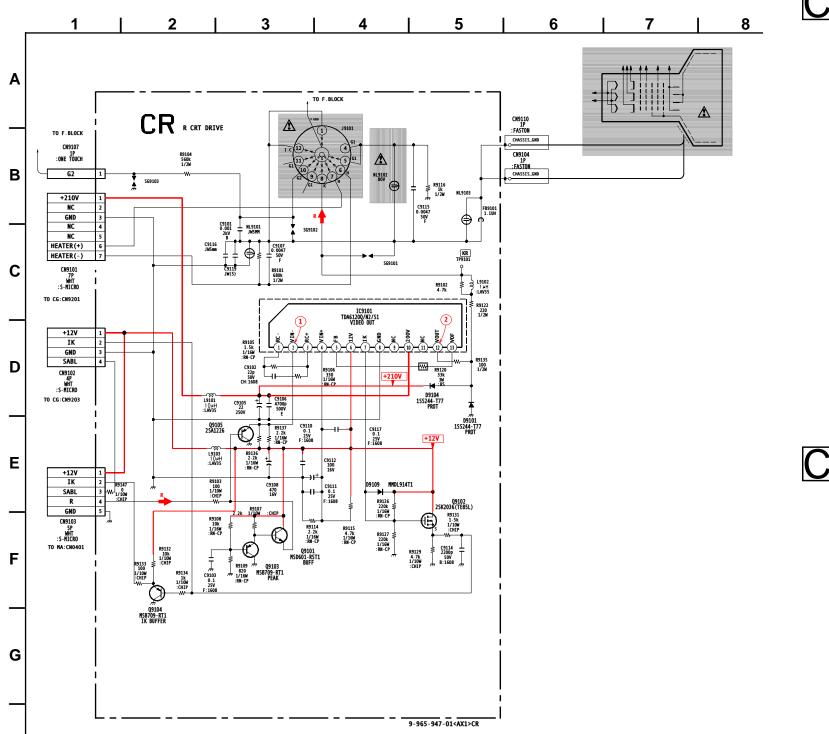
## MUTE & BLANKING CONTROL BLOCK DIAGRAM WITH MAJOR SIGNAL-FLOW



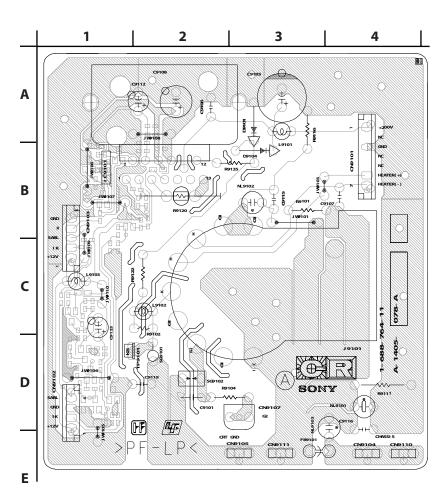
#### **Q MODULE**



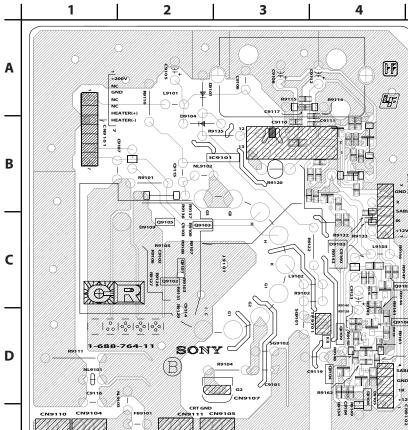
# 5-4. SCHEMATICS AND SUPPORTING INFORMATION CR BOARD SCHEMATIC DIAGRAM



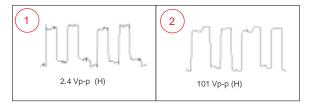








# **CR BOARD WAVEFORMS**



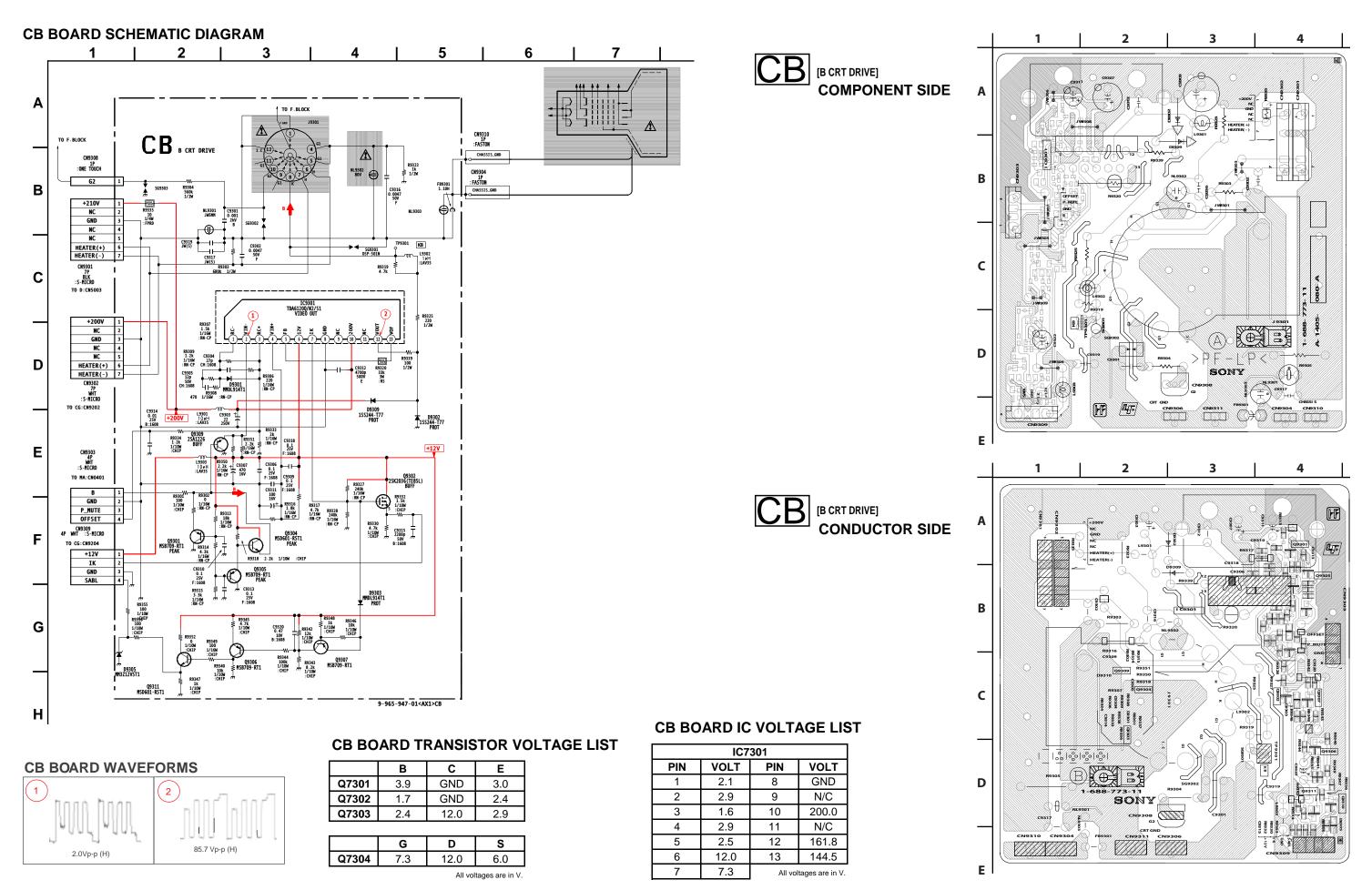
# **CR BOARD TRANSISTOR VOLTAGE LIST**

<b>Q7101</b> 1.7 GND	
UND 1.7 GND	2.3
<b>Q7102</b> 2.3 12.0	2.7

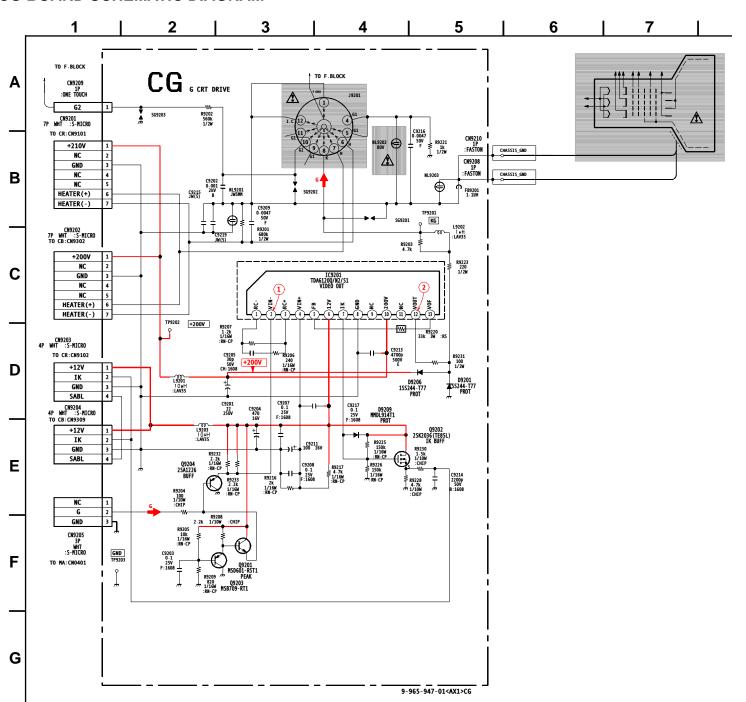
	G	D	S	
Q7103	7.0	12.0	5.7	
	All voltages are in V			

**CR BOARD IC VOLTAGE LIST** 

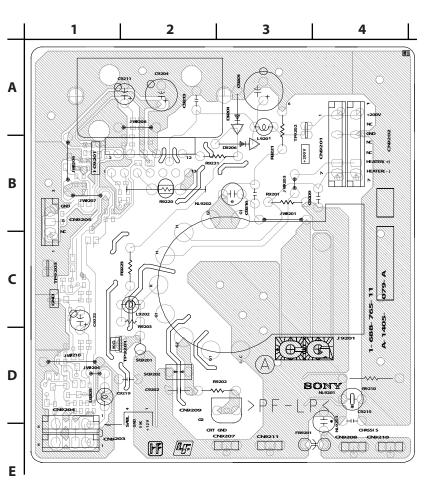
IC7101						
PIN	VOLT	PIN	VOLT			
1	2.0	8	GND			
2	2.7	9	N/C			
3	3.4	10	200.0			
4	4.1	11	N/C			
5	2.6	12	157.7			
6	12.0	13	158.2			
7	7.0	All voltages are in \				



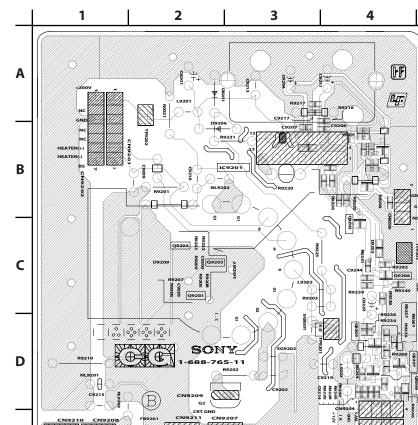
# **CG BOARD SCHEMATIC DIAGRAM**



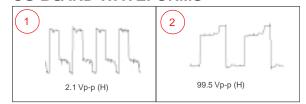








# **CG BOARD WAVEFORMS**



# **CG BOARD TRANSISTOR VOLTAGE LIST**

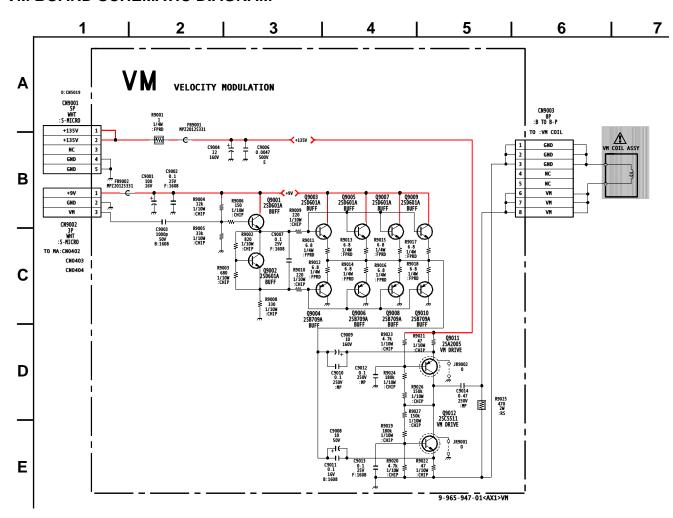
	В	С	E
Q7201	1.7	GND	2.3
Q7202	2.3	12.0	2.6

	G	D	S
Q7203	7.6	12.0	6.3
		All voltages are in V	

# **CG BOARD IC VOLTAGE LIST**

IC7201						
PIN	VOLT	PIN	VOLT			
1	1.9	8	GND			
2	2.6	9	N/C			
3	3.1	10	200.0			
4	3.8	11	N/C			
5	2.5	12	155.1			
6	12.0	13	159.2			
7	7.6	All voltages are in V				

## **VM BOARD SCHEMATIC DIAGRAM**

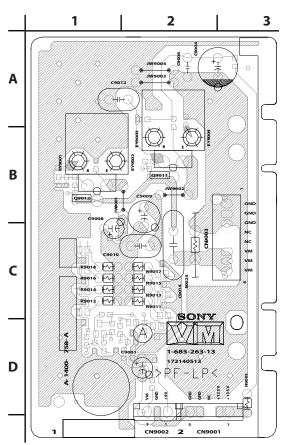


## VM BOARD TRANSISTOR VOLTAGE LIST

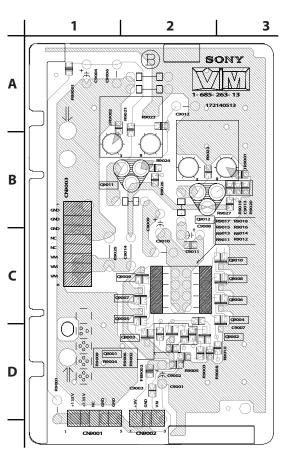
	В	С	Е
Q9001	0.0	9.0	5.2
Q9002	3.6	5.2	4.5
Q9003	5.1	9.0	4.5
Q9004	3.6	GND	4.3
Q9005	5.1	9.0	4.5
Q9006	3.6	GND	4.3
Q9007	5.1	9.0	4.5
Q9008	3.6	GND	4.3
Q9009	5.1	9.0	4.5
Q9010	3.6	GND	4.3
Q9011	133	66.7	134
Q9012	0	66.7	0

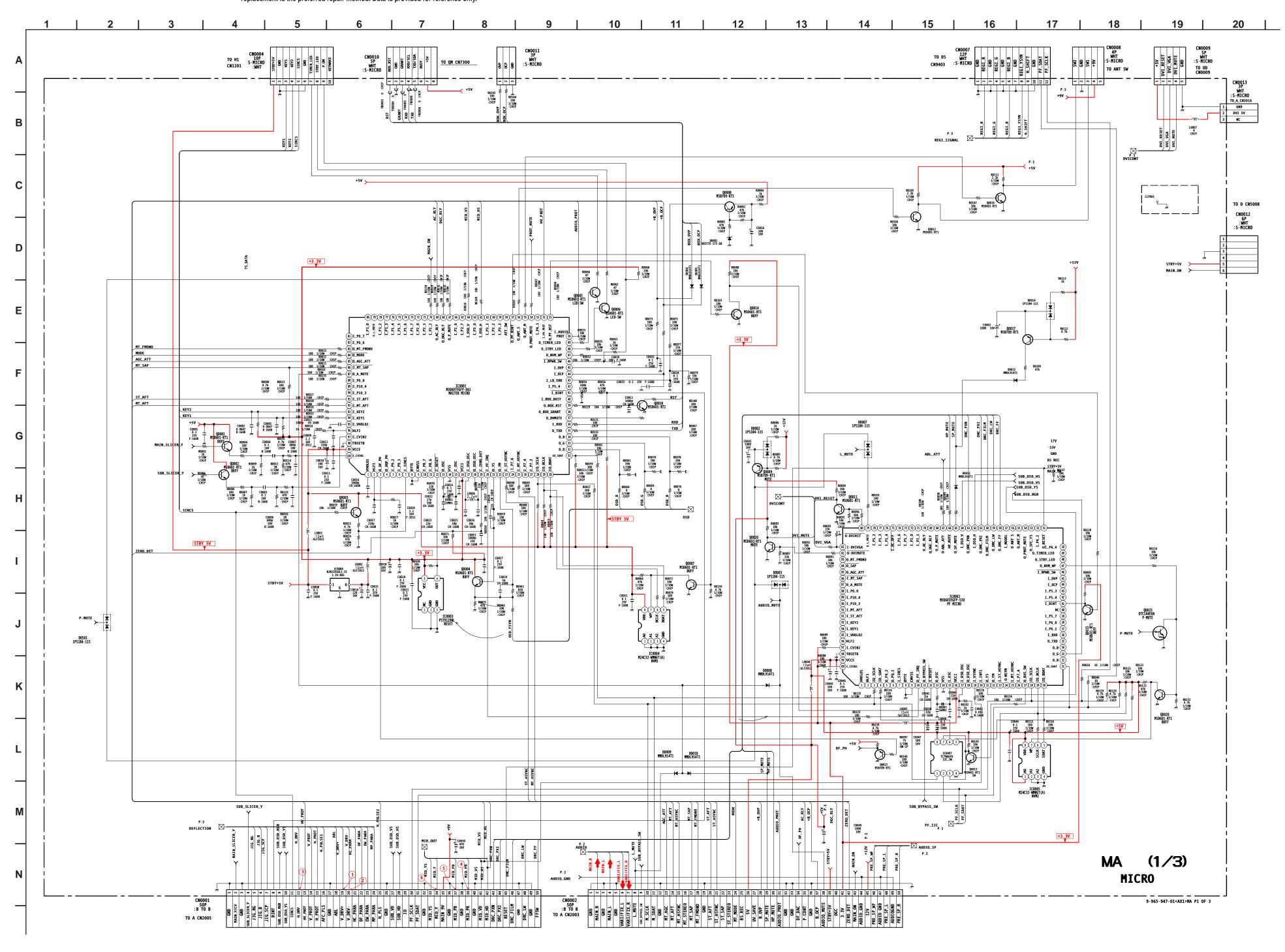
All voltages are in V.



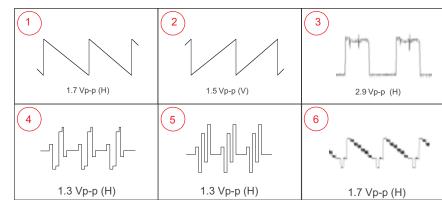




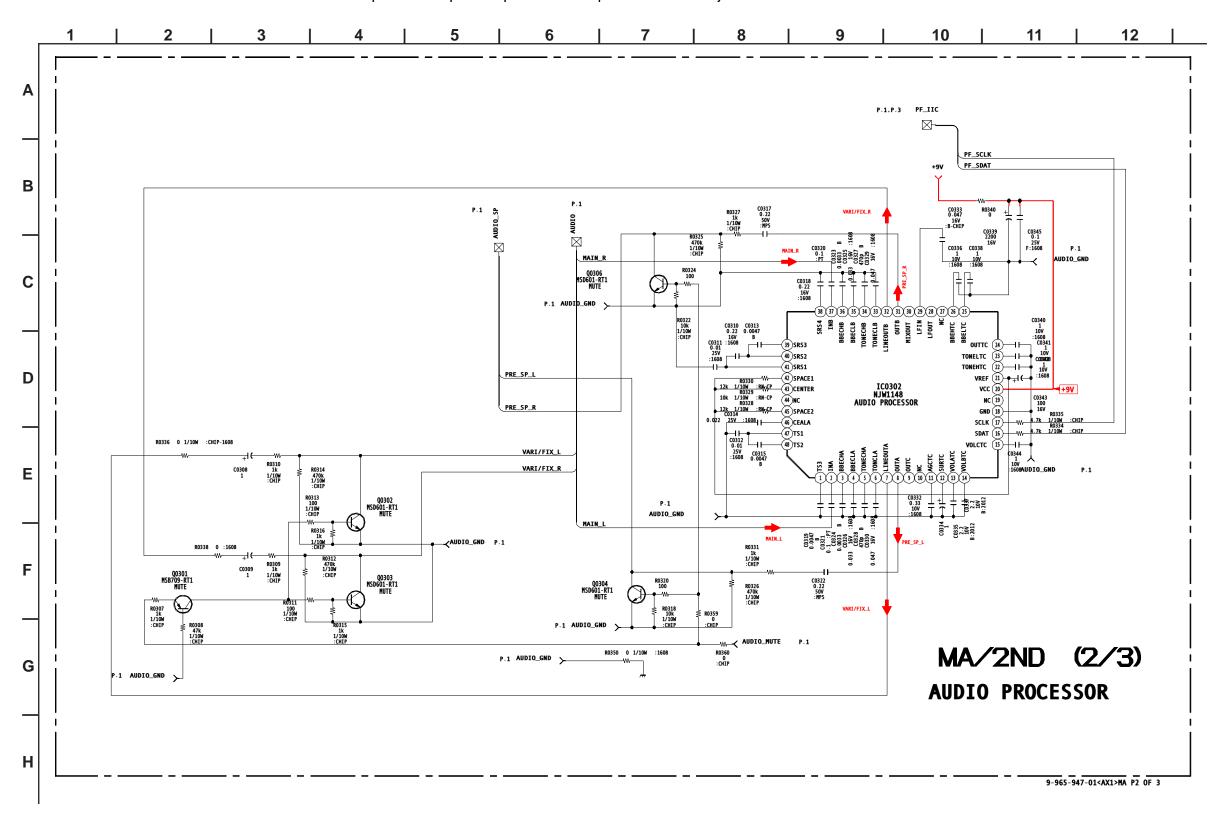


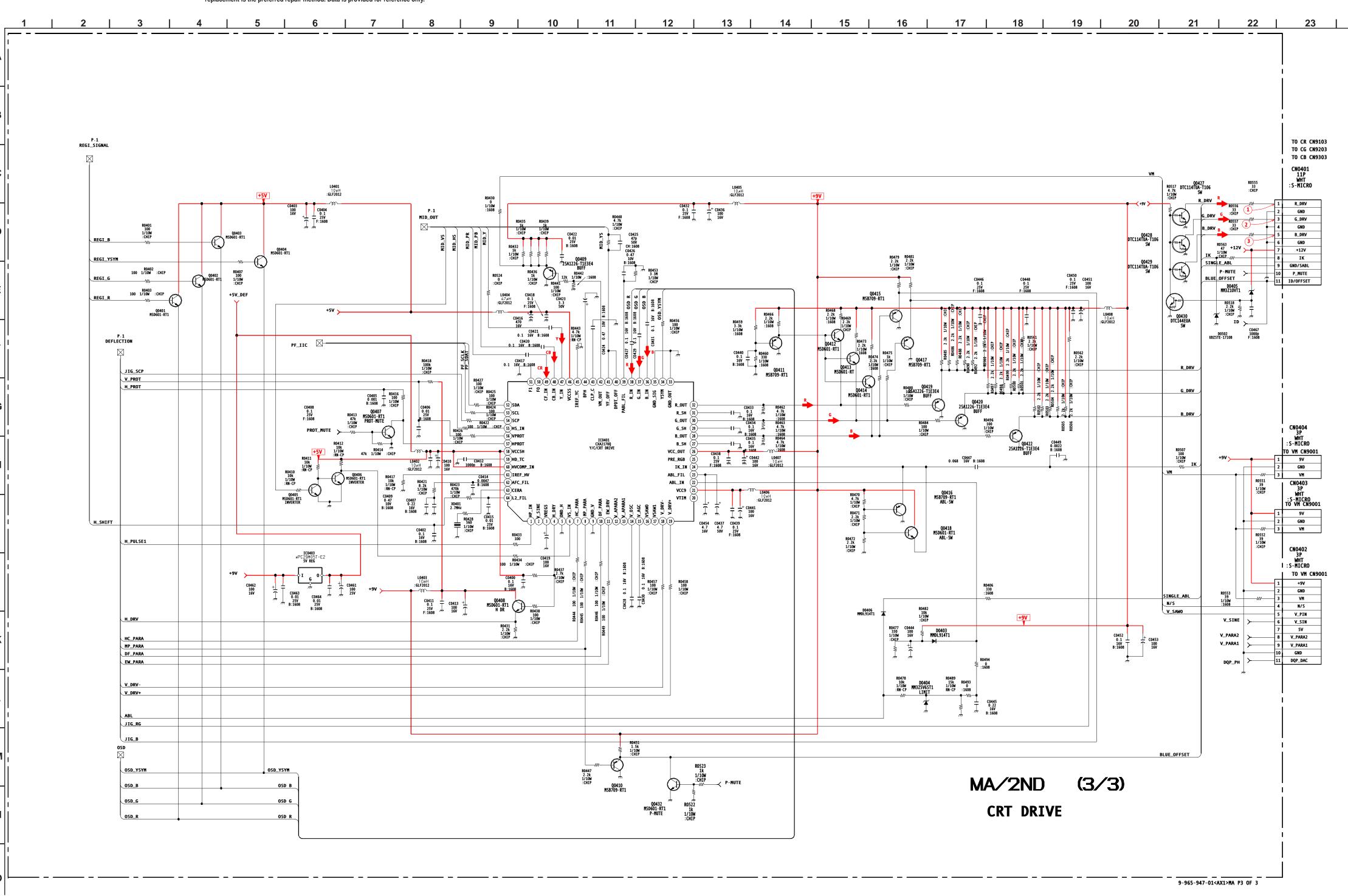


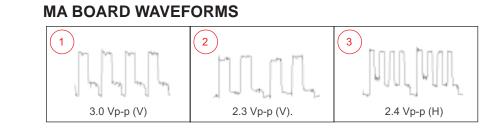
# MA BOARD WAVEFORMS

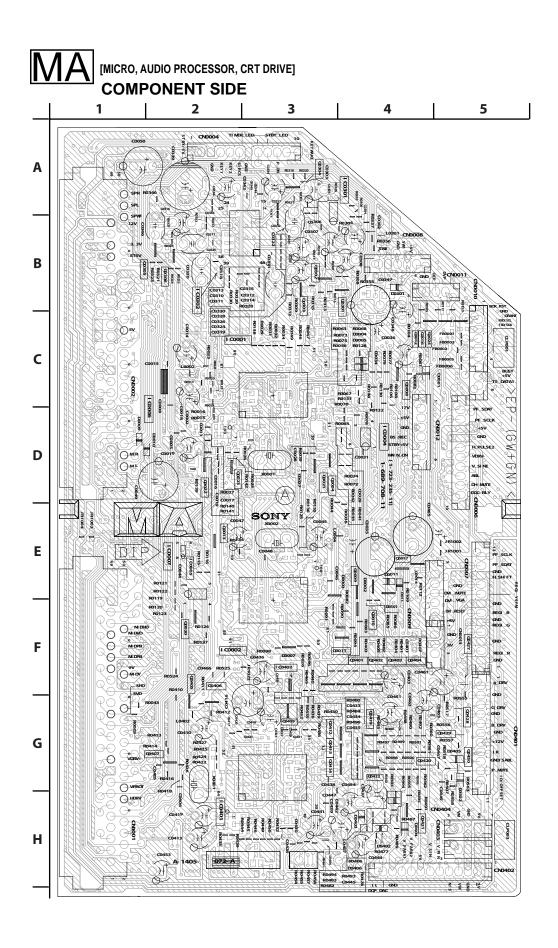


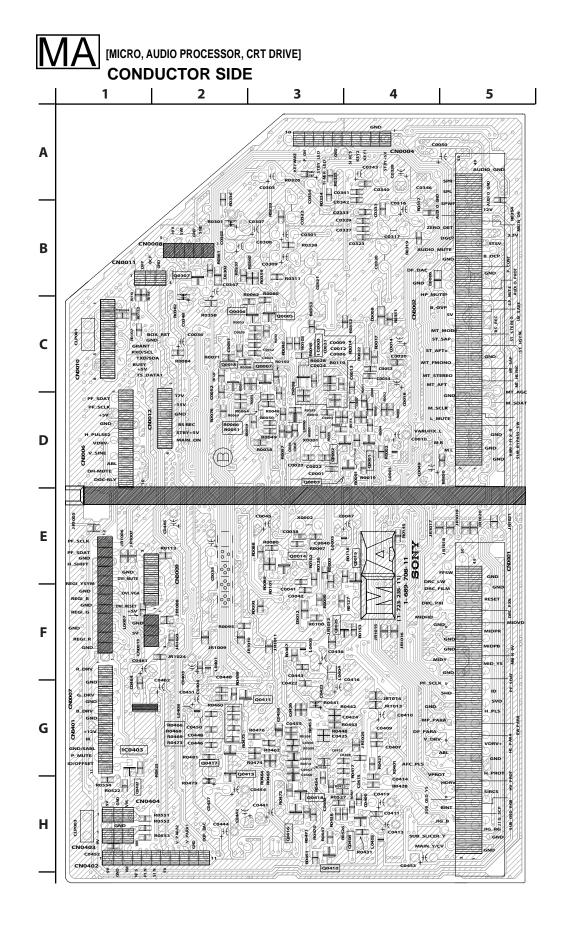
# MA BOARD SCHEMATIC DIAGRAM (2 OF 3) Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

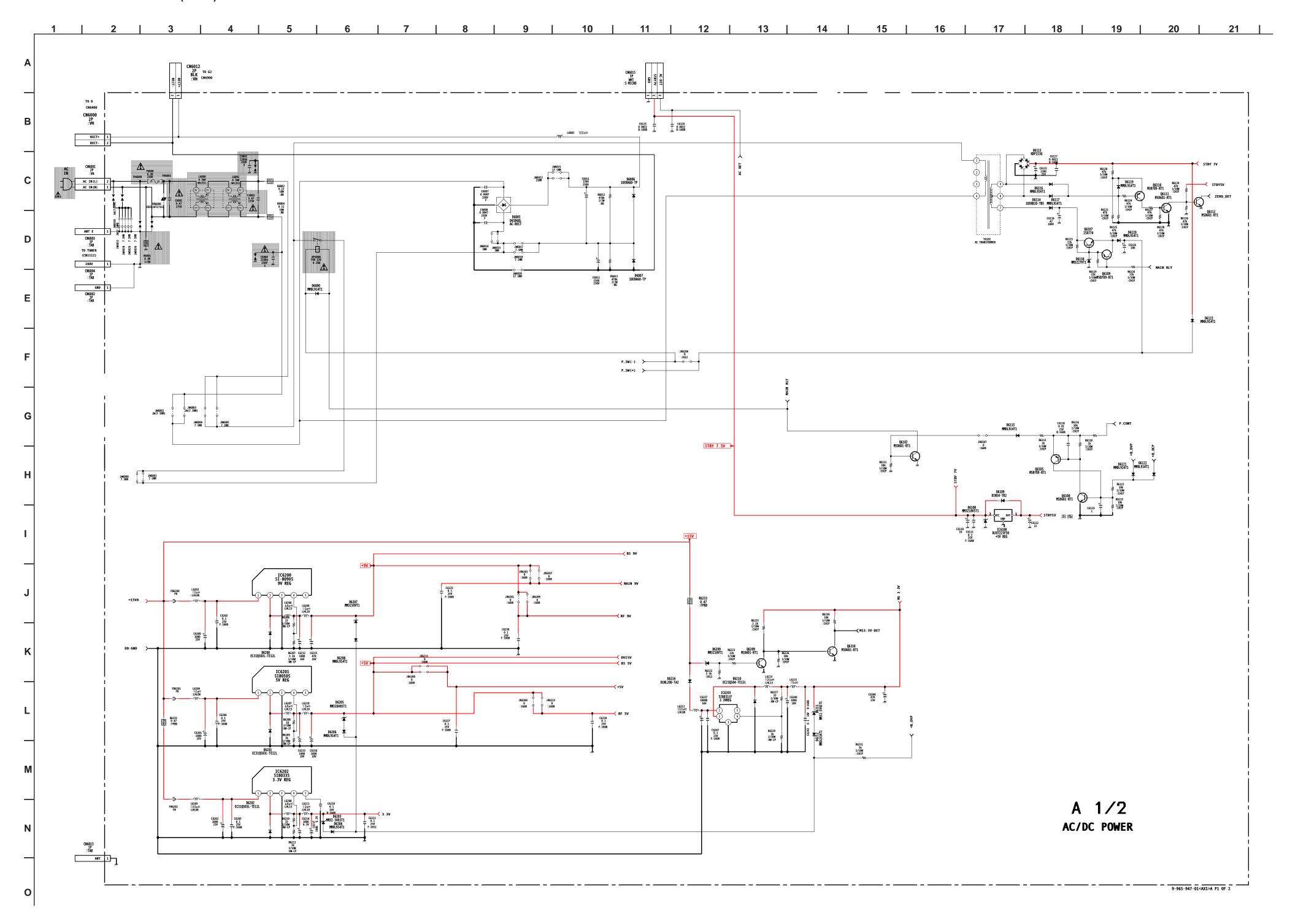










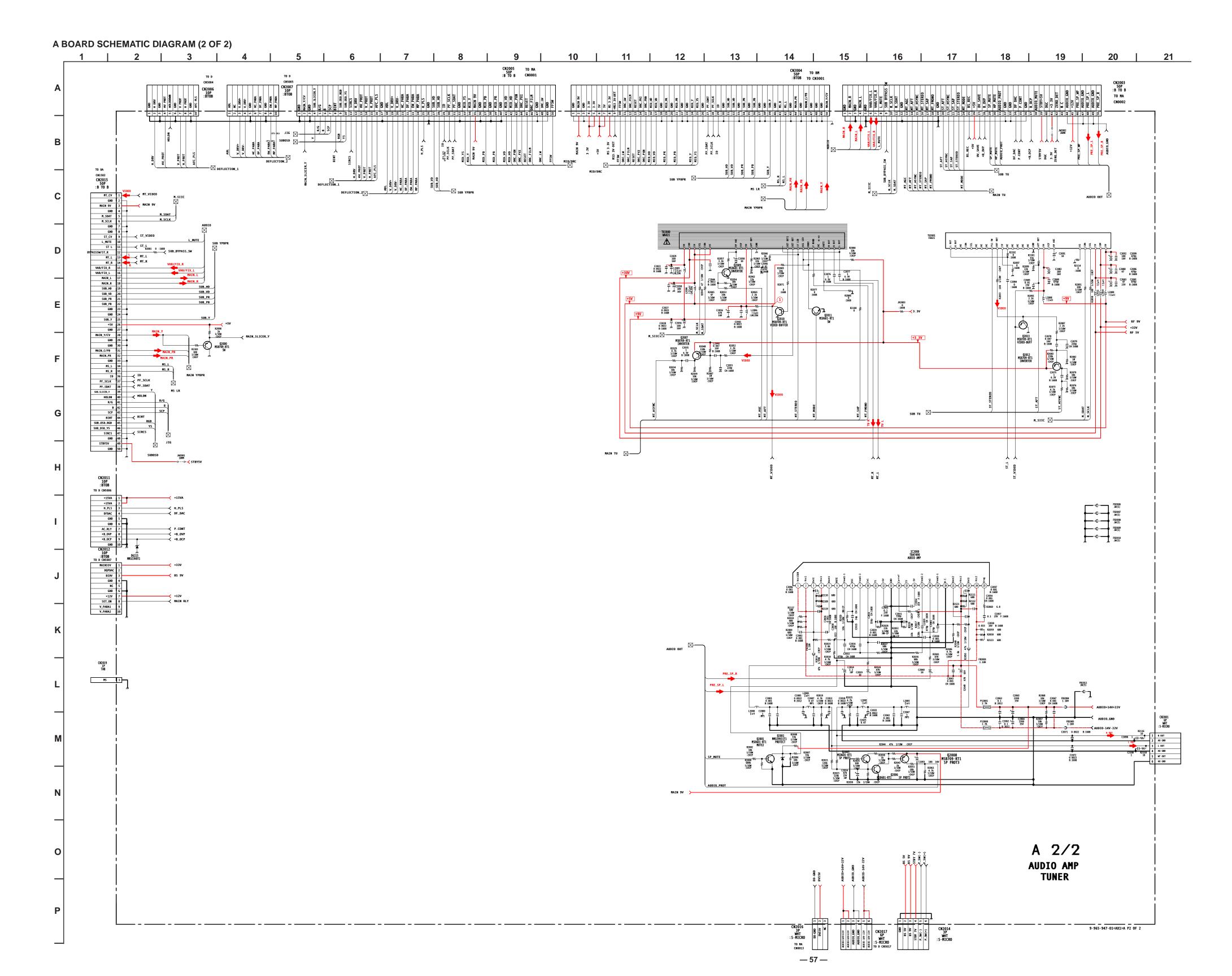


# A BOARD IC VOLTAGE LIST

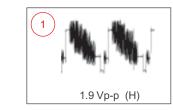
IC2	2000	IC6	100	IC6	203
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	-22.00	ı	7.0	1	15.0
2	-22.00	0	5.0	2	3.3
3	0.0	GND	GND	3	GND
4	22.1	IC6	200	4	3.3
5	9.1	PIN	VOLT	5	NC
6	5.1	1	15.0	All vo	tages are in \
7	0.0	2	9.0		
8	2.7	3	GND		
9	0.0	4	9.0		
10	0.0	5	NC		
11	0.0	IC6	201		
12	5.3	PIN	VOLT		
13	GND	1	15.0		
14	-20.7	2	5.0		
15	0.0	3	GND		
16	-5.5	4	5.0		
17	0.0	5	NC		
18	0.0	IC6	202		
19	0.0	PIN	VOLT		
20	0.0	1	15.0		
21	9.3	2	3.3		
22	22.1	3	GND		
23	0.0	4	3.3		
24	-22.0	5	NC		
25	-11.6				

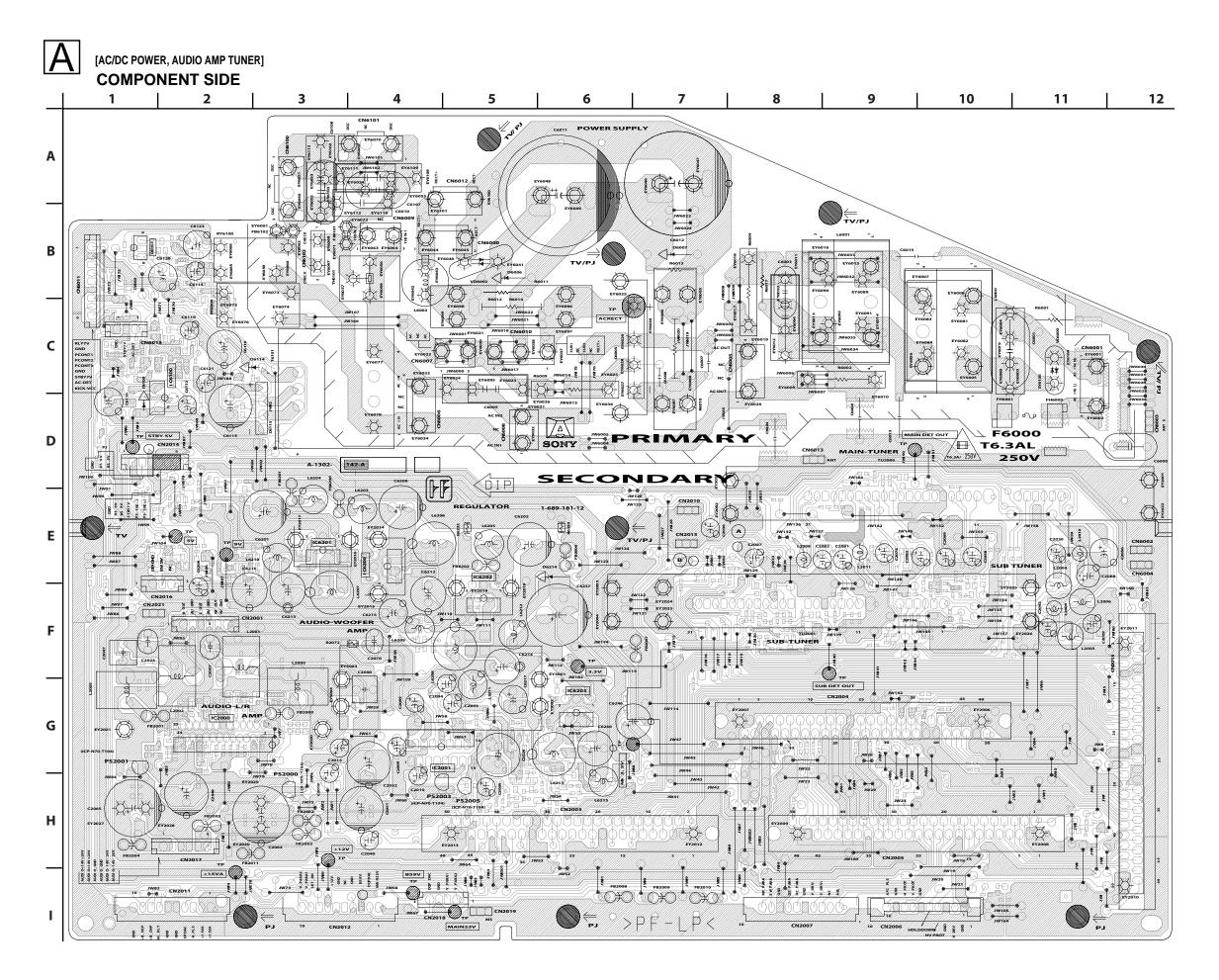
# A BOARD TRANSISTOR VOLTAGE LIST

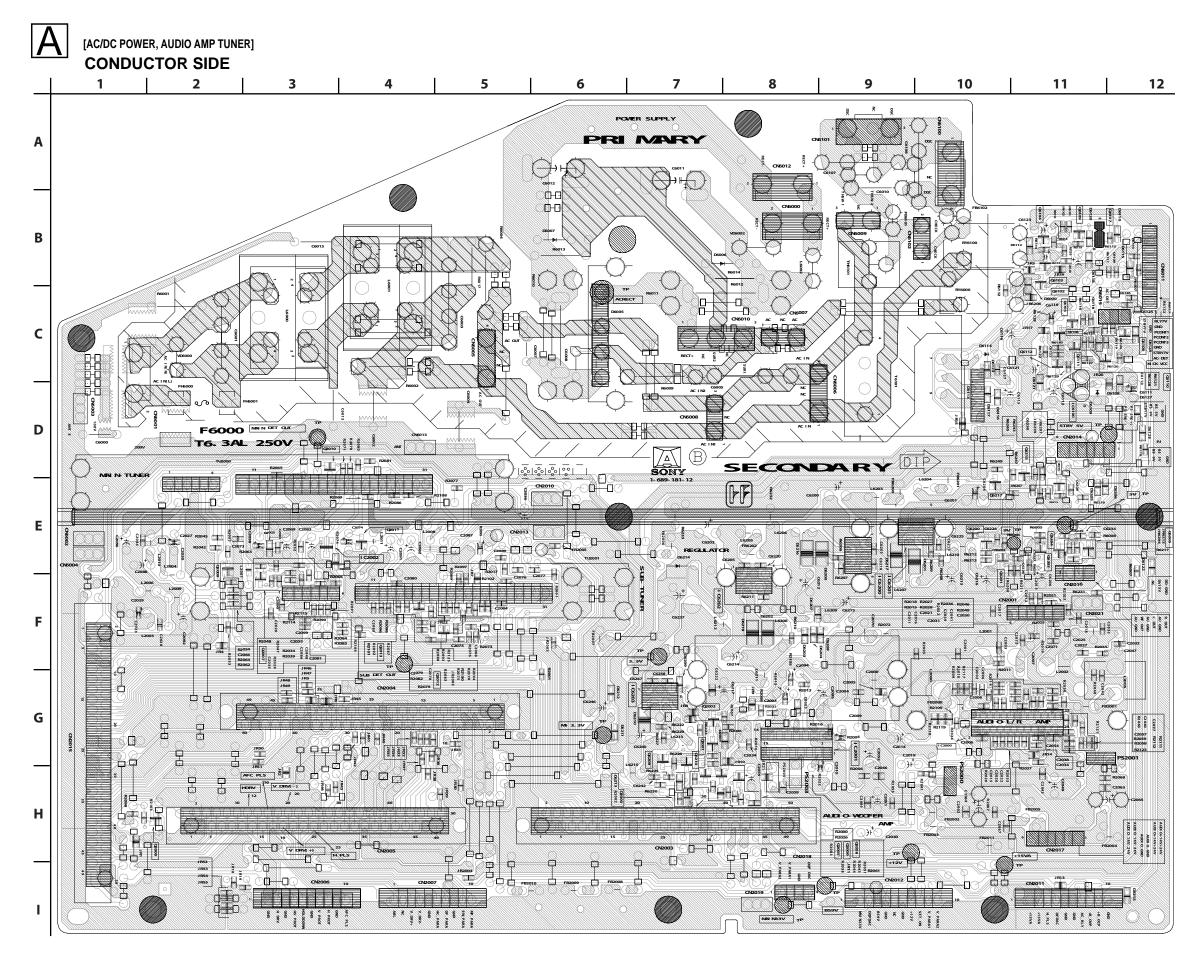
	В	C	E
Q2000	2.5	GND	0.0
Q2001	0.0	5.2	GND
Q2005	0.0	9.0	0.0
Q2006	0.0	9.0	GND
Q2007	3.5	0.5	3.3
Q2008	9.0	0.0	9.0
Q2009	0.1	7.5	GND
Q2010	5.9	GND	6.5
Q2011	0.8	0.0	GND
Q2012	3.4	0.0	3.3
Q2013	2.8	GND	3.5
Q6102	0.8	0.0	GND
Q6105	2.2	0.0	2.2
Q6107	8.4	41.5	8.4
Q6108	0.0	2.2	GND
Q6109	7.7	8.3	8.3
Q6110	6.4	0.7	6.2
Q6111	0.5	0.8	GND
Q6112	0.8	0.5	GND
Q6209	0.7	0	GND
Q6210	0	3.4	GND



# A BOARD WAVEFORMS



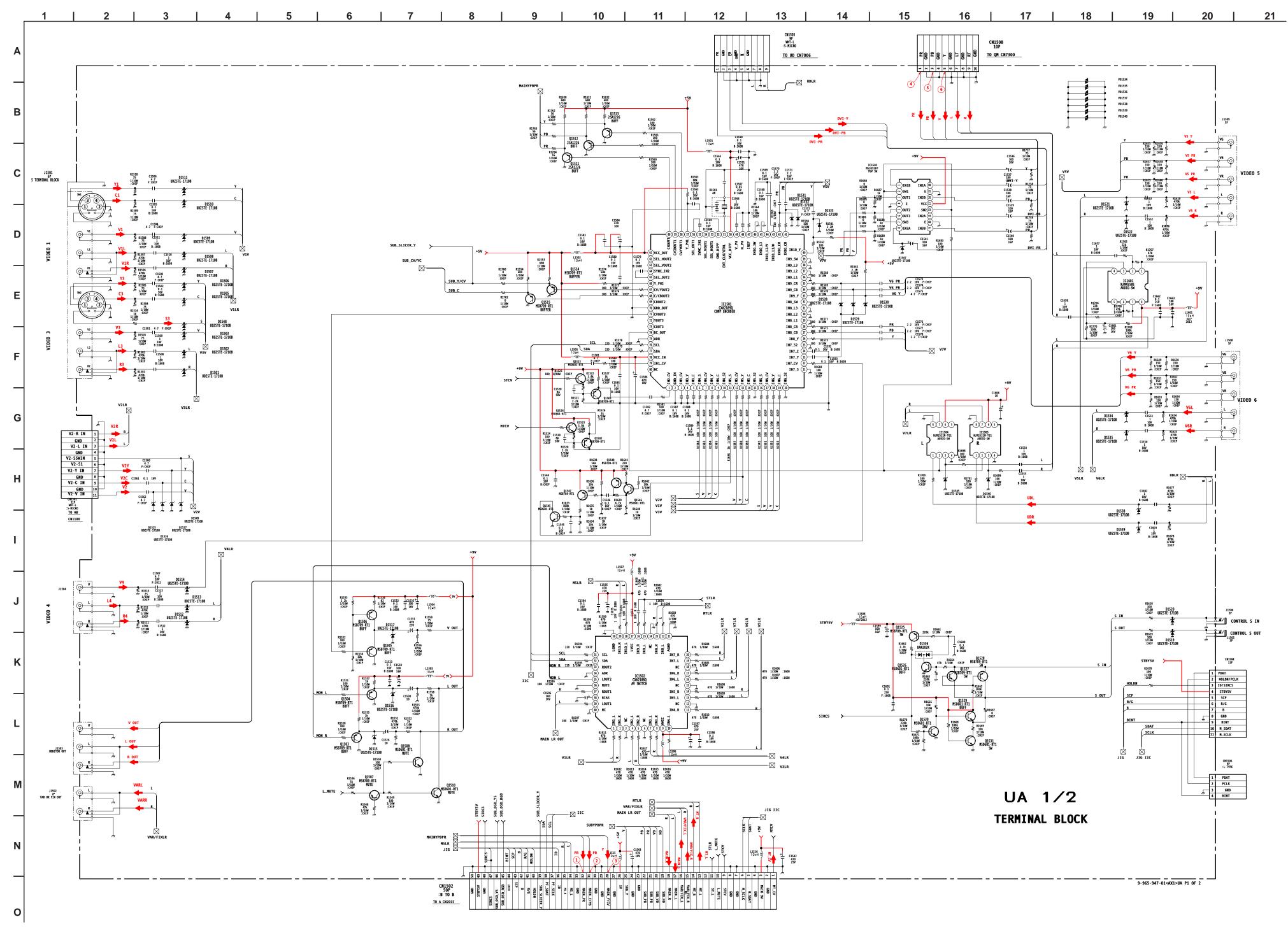




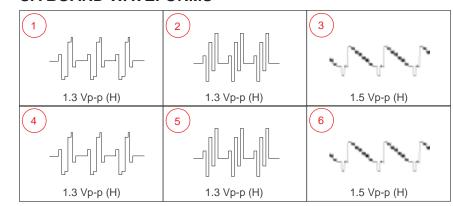
#### A BOARD LOCATOR LIST

DIC	DE	1/	С
D2001	G-7	IC2000	G-10
D6000	C-11	IC6100	C-11
D6005	C-6	IC6200	E-9
D6006	B-7	IC6201	E-9
D6007	B-6	IC6202	E-8
D6108	C-11	IC6203	G-6
D6109	C-11	TRANS	SISTOR
D6113	D-10	Q2000	H-1
D6114	C-10	Q2001	G-7
D6115	B-12	Q2005	H-7
D6116	D-10	Q2006	H-7
D6117	D-10	Q2007	E-3
D6118	B-11	Q2008	H-7
D6119	C-12	Q2009	E-2
D6120	B-11	Q2010	D-3
D6121	D-11	Q2011	E-4
D6122	E-12	Q2012	F-5
D6123	C-10	Q2013	F-4
D6125	C-12	Q6102	B-11
D6200	F-8	Q6105	C-11
D6201	E-9	Q6107	B-11
D6202	F-8	Q6108	C-11
D6203	F-8	Q6109	B-11
D6204	F-8	Q6110	C-12
D6205	E-11	Q6111	C-11
D6206	E-12	Q6112	C-11
D6207	F-8	Q6209	G-7
D6208	F-8	Q6210	G-7
D6209	F-7	All	voltages are in V.
D6210	G-6		
D6211	G-6		
D6212	G-6	]	
D6214	E-7		
D6215	I-12		

# UA BOARD SCHEMATIC DIAGRAM (1 OF 2)



# **UA BOARD WAVEFORMS**



# **UA BOARD IC VOLTAGE LIST**

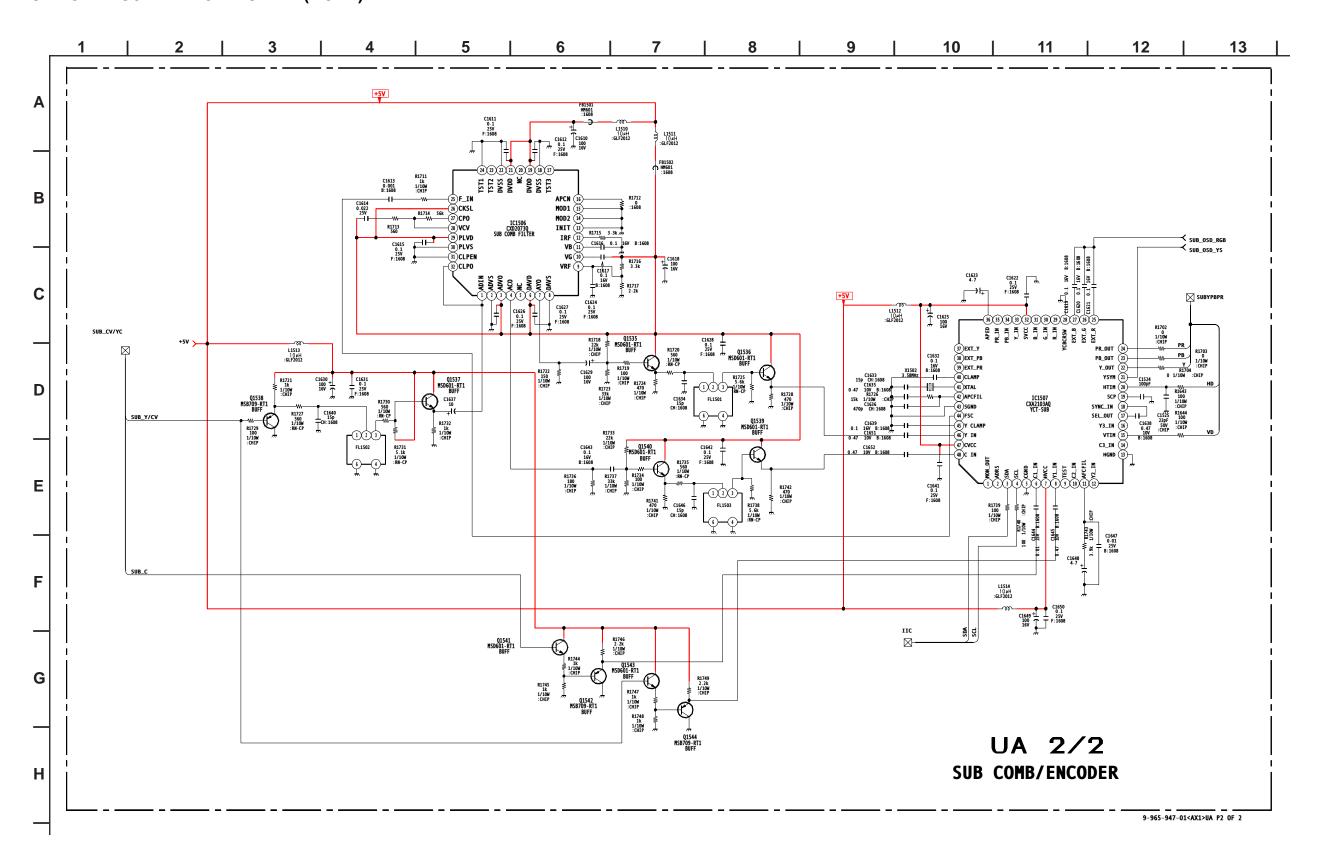
IC1	501	40	2.1	IC1	502	40	GND	IC1	506	7	4.9	IC1	1601
PIN	VOLT	41	2.5	PIN	VOLT	IC1	503	PIN	VOLT	8	2.8	PIN	VOLT
1	2.4	42	0.0	1	4.5	PIN	VOLT	1	1.0	9	NC	1	4.5
2	GND	43	0.0	2	GND	1	0.0	2	GND	10	NC	2	0.0
3	2.0	44	0.0	3	0.0	2	0.0	3	4.8	11	2.3	3	4.5
4	0.0	45	GND	4	4.5	3	0.0	4	1.0	12	NC	4	0.0
5	0.0	46	GND	5	4.5	4	GND	5	NC	13	GND	5	4.5
6	0.0	47	1.1	6	GND	5	0.0	6	4.8	14	NC	6	4.5
7	2.0	48	0.0	7	4.5	6	0.0	7	0.5	15	0.5	7	0.0
8	0.0	49	0.0	8	4.5	7	0.0	8	GND	16	NC	8	9.0
9	0.0	50	5.0	9	9.0	8	0.0	9	1.9	17	2		tages are in
10	GND	51	0.0	10	4.5	9	0.0	10	2.6	18	3.1		Ü
11	0.0	52	0.0	11	4.5	10	GND	11	0.9	19	2.0		
12	0.0	53	NC	12	GND	11	4.7	12	2.0	20	0.5		
13	0.0	54	NC	13	4.5	12	0.0	13	GND	21	0.0		
14	2.5	55	0.0	14	4.5	13	9.0	14	GND	22	1.8		
15	0.0	56	0.0	15	GND	14	4.7	15	GND	23	2.1		
16	0.0	57	2.9	16	5.2	15	GND	16	GND	24	2.0		
17	0	58	0.0	17	0.0	16	4.7	17	NC	25	3.4		
18	2.0	59	0.0	18	GND		504	18	GND	26	3.4		
19	0.0	60	2.4	19	4.5	PIN	VOLT	19	5.0	27	3.4		
20	GND	61	5.0	20	4.5	1	5.9	20	NC	28	GND		
21	GND	62	NC	21	GND	2	0.0	21	5.0	29	NC		
22	2.0	63	NC	22	0.0	3	6.0	22	GND	30	NC		
23	2.0	64	2.5	23	0.0	4	GND	23	NC	31	NC		
24	0.0	65	1.1	24	GND	5	NC	24	GND	32	5.0		
25	GND	66	2.9	25	4.5	6	9.0	25	2.4	33	NC		
26	0.0	67	1.3	26	4.5	7	5.2	26	5.0	34	NC		
27	0.0	68	2.4	27	9.0	8	GND	27	2.2	35	NC		
28	2.5	69	2.4	28	4.5	IC1	505	28	2.2	36	2.6		
29	GND	70	0.0	29	4.5	PIN	VOLT	29	5.0	37	NC		
30	GND	71	0.0	30	GND	1	5.9	30	GND	38	NC		
31	GND	72	NC	31	4.8	2	0.0	31	GND	39	NC		
32	GND	73	NC	32	4.7	3	6.0	32	1.0	40	1.7		
33	2.0	74	0.0	33	4.5	4	GND	IC1	507	41	1.7		
34	2.5	75	0.0	34	GND	5	NC	PIN	VOLT	42	2.4		
35	2.5	76	4.8	35	4.5	6	9.0	1	NC	43	GND		
36	GND	77	4.7	36	GND	7	5.2	2	NC	44	0.0		
37	GND	78	5.0	37	4.5	8	GND	3	4.6	45	3.1		
38	GND	79	2.4	38	4.5			4	4.6	46	2.8		
39	GND	80	NC	39	4.5			5	GND	47	5.0		
								6	2.8	48	3.1		

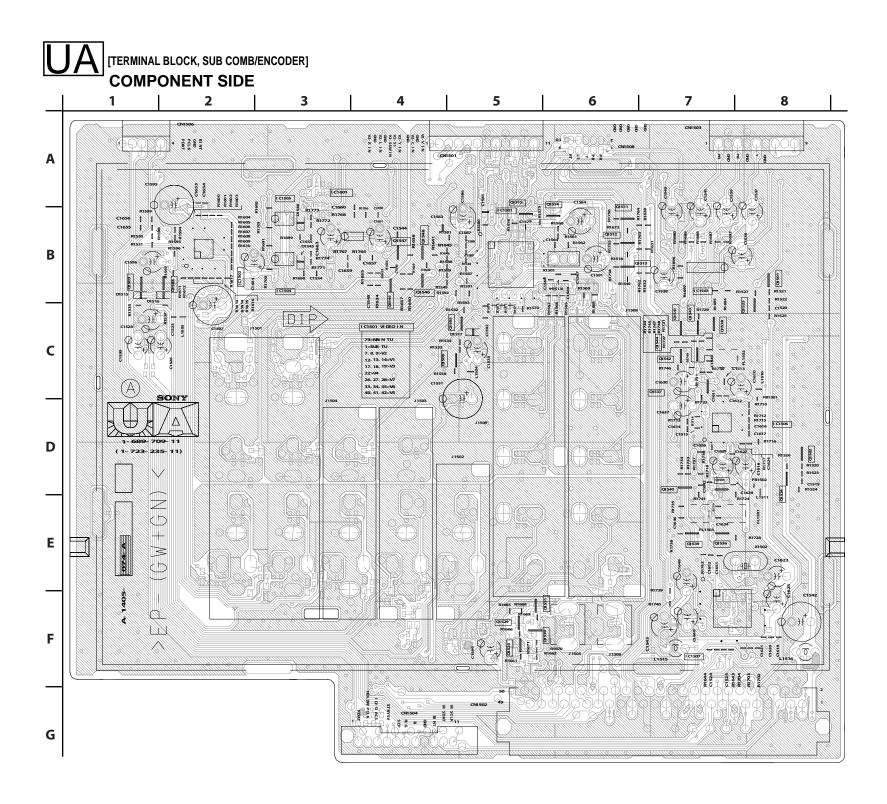
# UA BOARD TRANSISTOR VOLTAGE LIST

**Q1535** 2.7 5.0 2.1

	В	С	Е		В	С	Е
Q1501	2.0	GND	2.7	Q1536	1.9	5.0	1.2
Q1502	3.3	GND	4.0	Q1537	3.2	5.0	2.6
Q1503	4.5	GND	4.0	Q1538	1.9	GND	0.0
Q1504	4.5	GND	5.2	Q1539	1.9	5.0	1.2
Q1505	1.6	GND	0.9	Q1540	2.7	5.0	0.0
Q1506	4.4	8.3	3.8	Q1541	1.9	5.0	0.0
Q1507	0.0	0.0	0.0	Q1542	1.2	GND	1.9
Q1508	0.0	0.0	GND	Q1543	2.1	5.0	1.5
Q1510	0.0	0.0	GND	Q1544	0.7	GND	1.3
Q1511	0.0	GND	3.0	Q1545	0.0	0.0	GND
Q1512	2.0	GND	3.1	Q1546	0.0	8.8	0.0
Q1513	1.5	GND	2.3	Q1547	0.0	0.0	9.0
Q1514	1.2	GND	1.9	Q1548	8.8	9.0	9.0
Q1515	2.3	GND	3.0			All vol	Itages are in V.
Q1523	4.5	9.0	3.9				
Q1524	6.5	9.0	3.9				
Q1525	4.9	4.2	5.0				
Q1526	0.0	4.9	GND				
Q1527	5.0	0.0	0.0				
Q1528	5.0	0.0	0.0				
Q1529	0.1	5.0	0.0				
Q1530	0.6	0.1	GND				
Q1531	0.6	0.0	GND				

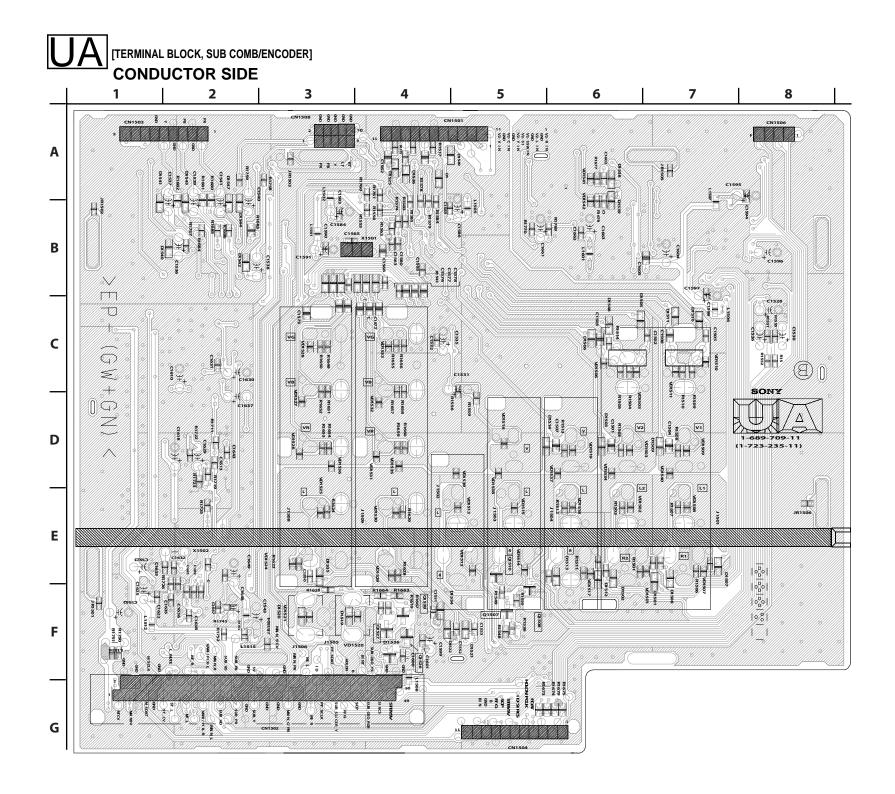
# **UA BOARD SCHEMATIC DIAGRAM (2 OF 2)**





# **UA BOARD LOCATOR LIST**

		TRANSICTOR				
DIC	DE	TRANSISTOR				
D1515	B-1	Q1501	B-8			
D1516	B-1	Q1502	D-8			
D1517	C-5	Q1503	B-1			
D1545	B-3	Q1504	B-2			
D1546	B-3	Q1505	C-5			
[(	C	Q1506	C-5			
IC1501	B-5	Q1511	B-6			
IC1502	B-3	Q1512	B-6			
IC1503	B-7	Q1513	B-6			
IC1504	B-3	Q1514	A-6			
IC1505	B-3	Q1515	A-5			
IC1506	D-7	Q1523	C-8			
IC1507	F-7	Q1524	D-8			
IC1601	A-3	Q1525	F-5			
		Q1529	F-5			
		Q1530	F-5			
		Q1531	F-5			
		Q1535	D-7			
		Q1536	E-7			
		Q1537	C-7			
		Q1538	C-7			
		Q1539	E-7			
		Q1540	D-7			
		Q1541	C-7			
		Q1542	C-7			
		Q1543	C-7			
		Q1544	C-7			
		Q1545	B-4			
		Q1546	B-4			
		Q1547	B-4			
		Q1548	B-4			



# **UA BOARD LOCATOR LIST**

DIC	DE	DIC	DE	TRANSISTOR		
D1501	F-7	D1530	B-3	Q1507	F-5	
D1502	F-6	D1531	B-3	Q1508	F-5	
D1503	D-6	D1532	B-4	Q1510	E-5	
D1505	B-6	D1533	B-4	Q1526	F-4	
D1506	C-6	D1534	F-4	Q1527	F-4	
D1507	E-7	D1535	E-3	Q1528	F-5	
D1508	E-7	D1536	F-4		•	
D1509	D-6	D1538	A-6			
D1510	C-7	D1539	B-6			
D1511	C-7	D1547	A-2			
D1512	F-6	D1548	C-6			
D1513	E-6	D1549	A-5			
D1514	D-6			=		
D1519	F-3					
D1520	F-3					
D1521	F-5					
D1522	F-5					
D1525	A-4					
D1526	A-4					
D1527	A-4					
D1528	B-3					
D1529	B-3					

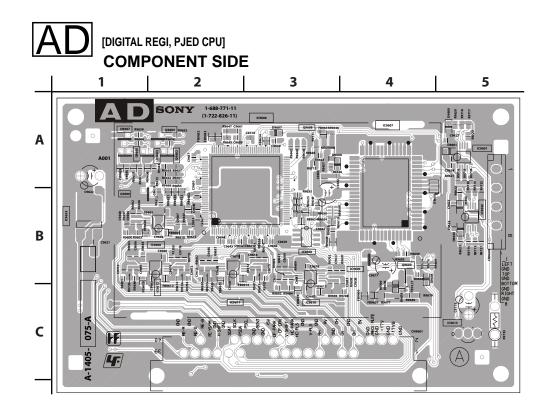
SEN\_B SEN\_L SEN\_T

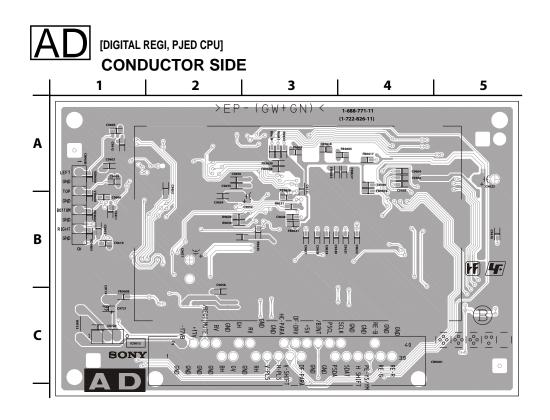
F89824 Out H Out H

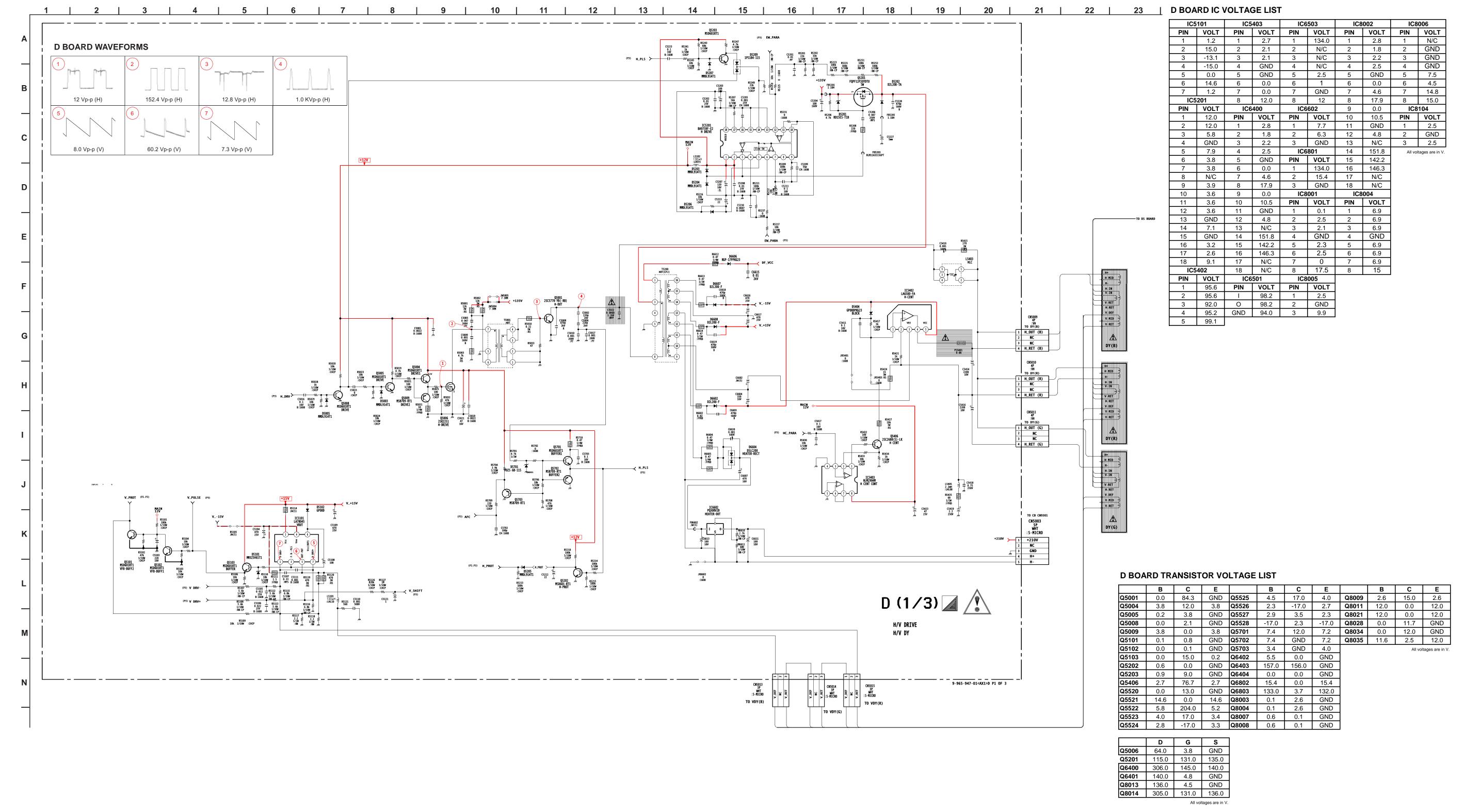
# AD BOARD WAVEFORMS

2.1 Vp-p (V)	2.3 Vp-p (V)	2.1 Vp-p (V)
2.5 Vp-p (V)	2.0 Vp-p (V)	2.3 Vp-p (V)

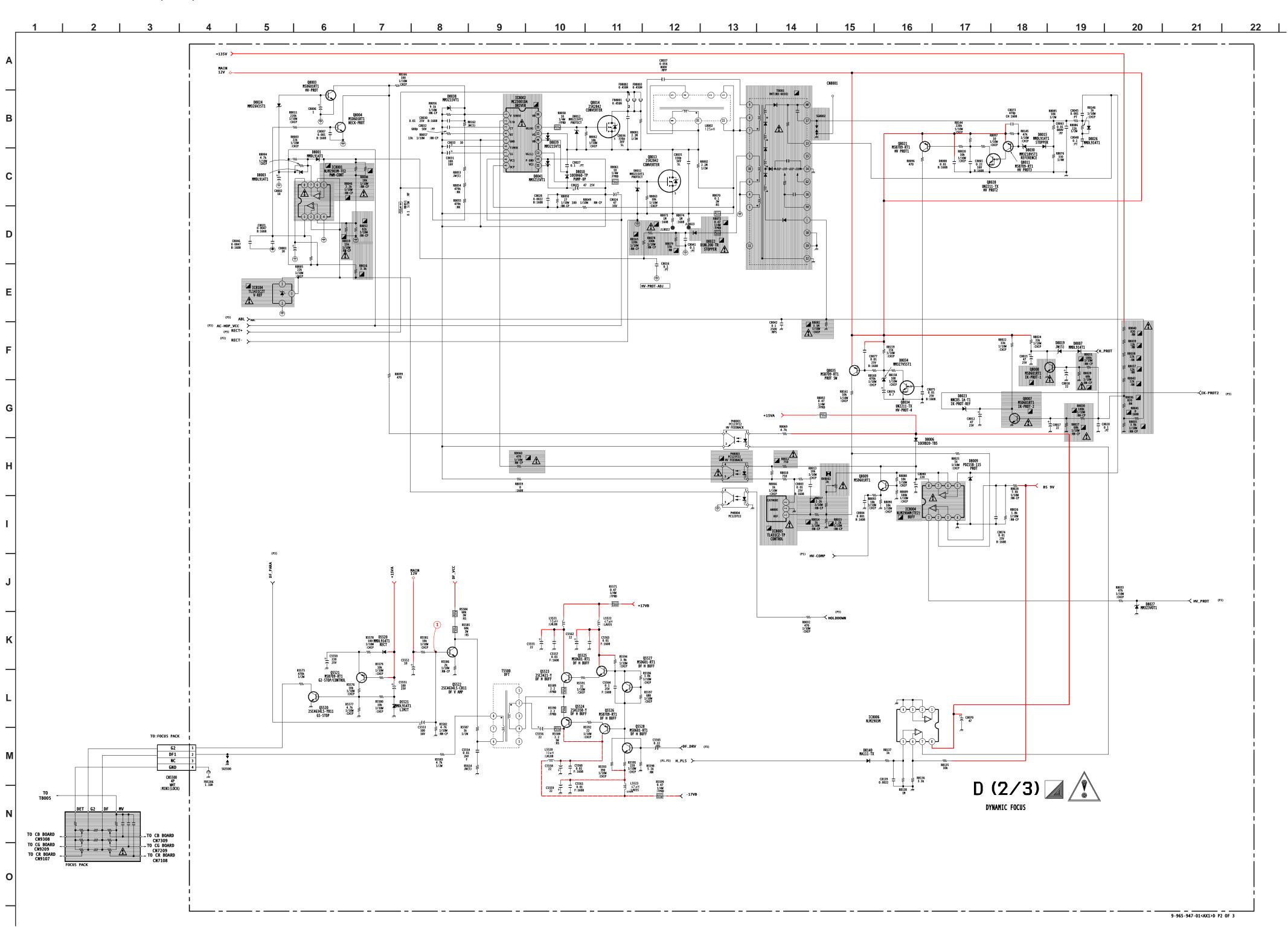
| 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170



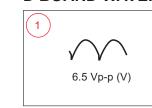


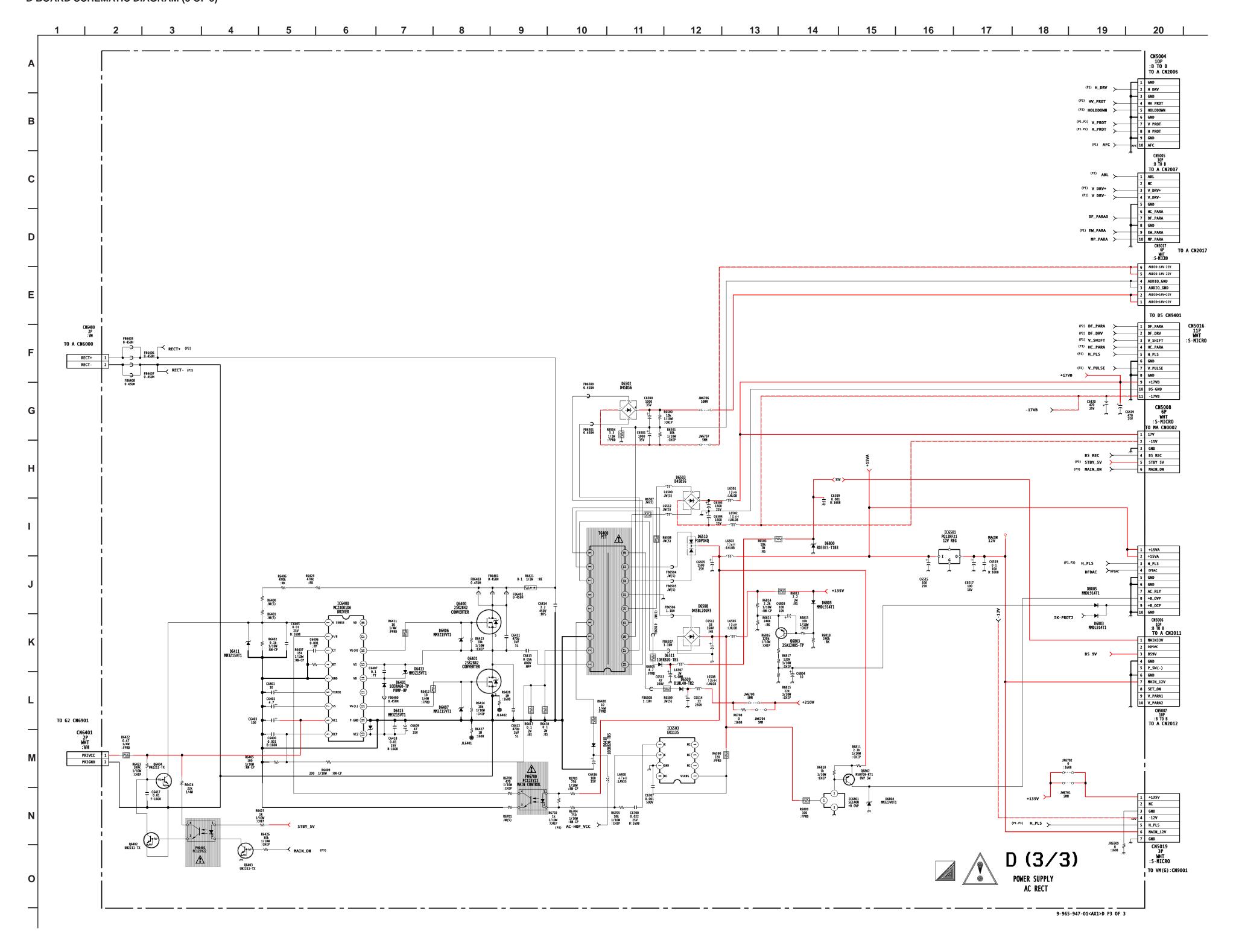


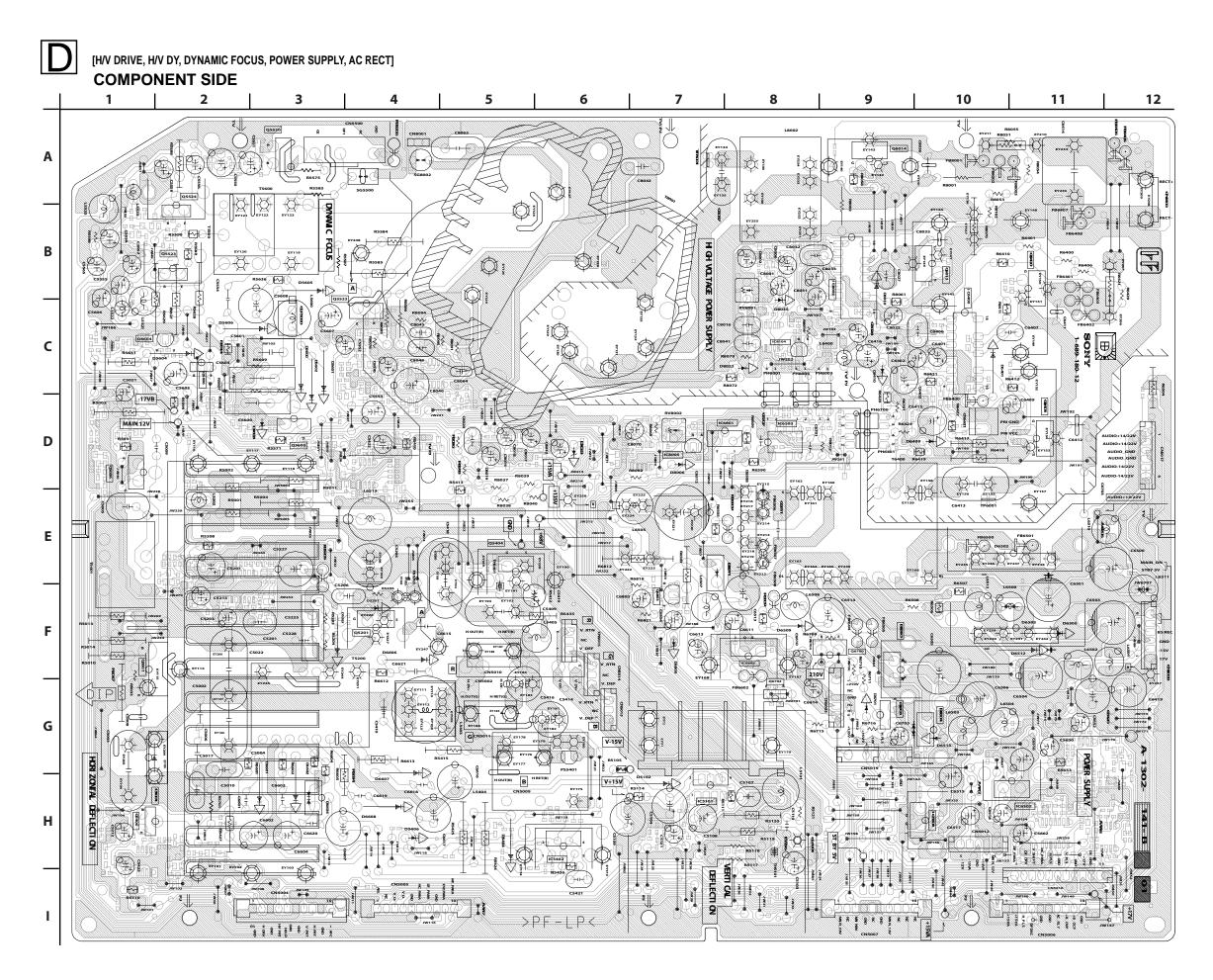
D BOARD SCHEMATIC DIAGRAM (2 OF 3)

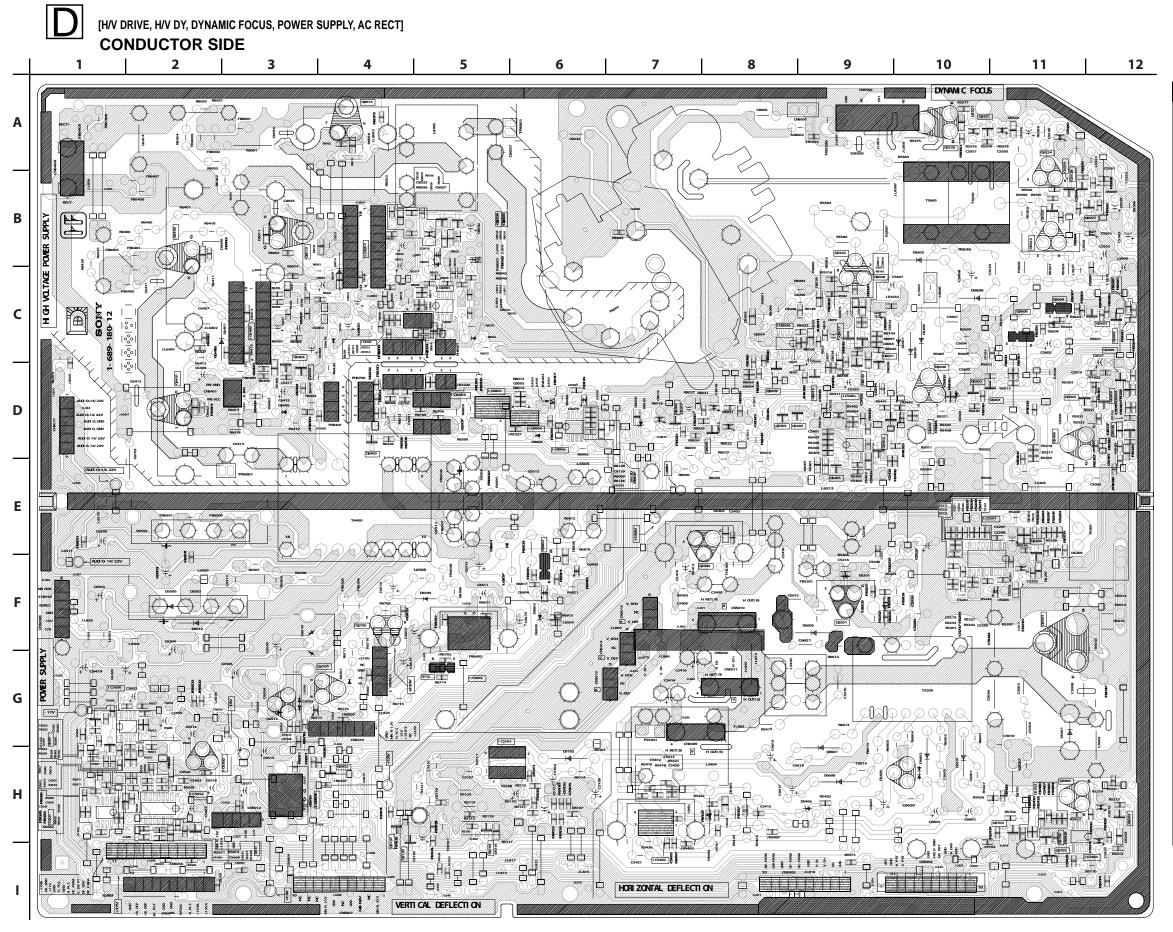


# D BOARD WAVEFORMS



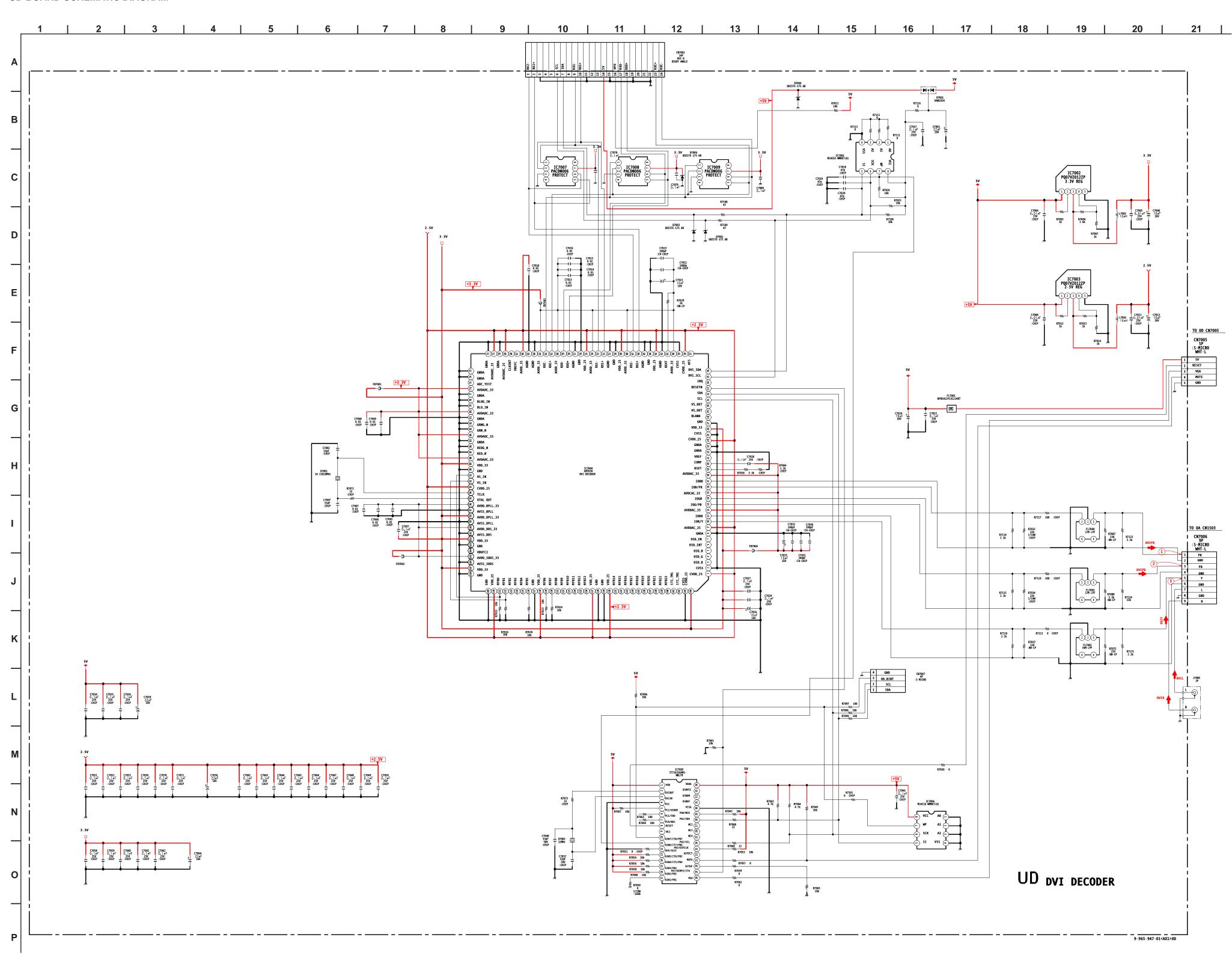




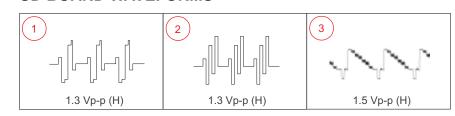


# D BOARD LOCATOR LIST

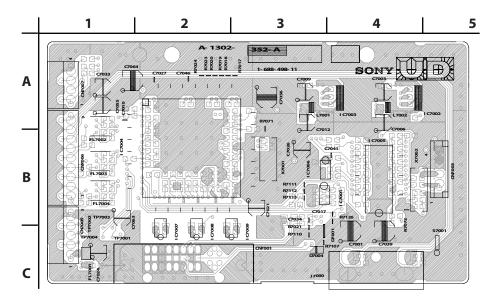
DIC	DDE	DIC	DE	TRANSISTOR		
D5003	D-12	D8010	B-4	Q5201	F-9	
D5005	D-12	D8011	B-3	Q5202	H-12	
D5101	H-5	D8012	A-4	Q5203	E-11	
D5102	H-6	D8015	B-9	Q5406	H-11	
D5201	F-9	D8022	C-5	Q5520	A-10	
D5202	F-9	D8023	D-7	Q5521	A-10	
D5203	E-11	D8024	B-5	Q5522	C-9	
D5204	E-11	D8026	C-9	Q5523	B-11	
D5205	H-12	D8027	C-9	Q5524	B-11	
D5206	F-11	D8030	B-9	Q5525	B-11	
D5207	F-11	D8034	D-9	Q5526	B-11	
D5209	F-10	D8038	B-5	Q5527	B-12	
D5404	I-7	D8039	B-4	Q5528	B-11	
D5520	A-11	D8041	C-4	Q5701	I-11	
D5521	A-10	D8140	E-7	Q5702	I-11	
D5701	H-11	I(	С	Q5703	H-11	
D6401	C-2	IC5101	F-5	Q6400	B-2	
D6406	B-2	IC5201	E-10	Q6401	D-2	
D6407	D-2	IC5402	H-7	Q6402	D-3	
D6410	C-4	IC5403	I-11	Q6403	D-4	
D6411	C-3	IC6400	C-3	Q6404	D-3	
D6413	C-3	IC6501	H-3	Q6802	H-4	
D6415	C-3	IC6503	D-4	Q6803	F-6	
D6502	E-2	IC6602	F-5	Q8003	B-5	
D6503	F-2	IC6801	D-5	Q8004	B-5	
D6508	E-5	IC8001	C-5	Q8007	D-7	
D6509	F-5	IC8002	B-4	Q8008	D-7	
D6510	F-3	IC8004	C-8	Q8009	D-8	
D6511	E-5	IC8005	D-5	Q8011	C-9	
D6602	G-9	IC8006	D-5	Q8013	B-3	
D6604	H-9	IC8104	C-4	Q8014	A-4	
D6606	F-9	TRANS	SISTOR	Q8021	C-9	
D6607	G-9	Q5001	F-11	Q8028	C-9	
D6608	H-9	Q5004	D-11	Q8034	C-9	
D6800	F-6	Q5005	C-12	Q8035	D-9	
D6803	F-6	Q5006	D-11			
D6804	I-3	Q5008	D-11			
D6805	E-6	Q5009	D-11			
D8001	B-5	Q5101	I-4			
D8003	B-5	Q5102	I-4			
D8005	D-7	Q5103	H-5			
D8006	D-6					
D8007	E-9					
D8008	C-9					
D8009	C-8					



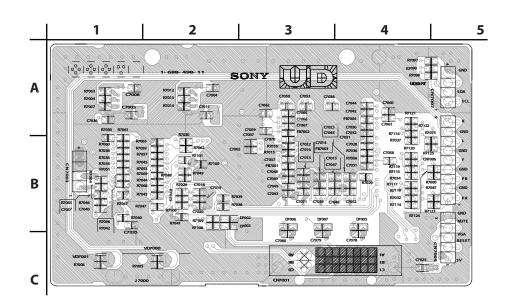
# **UD BOARD WAVEFORMS**

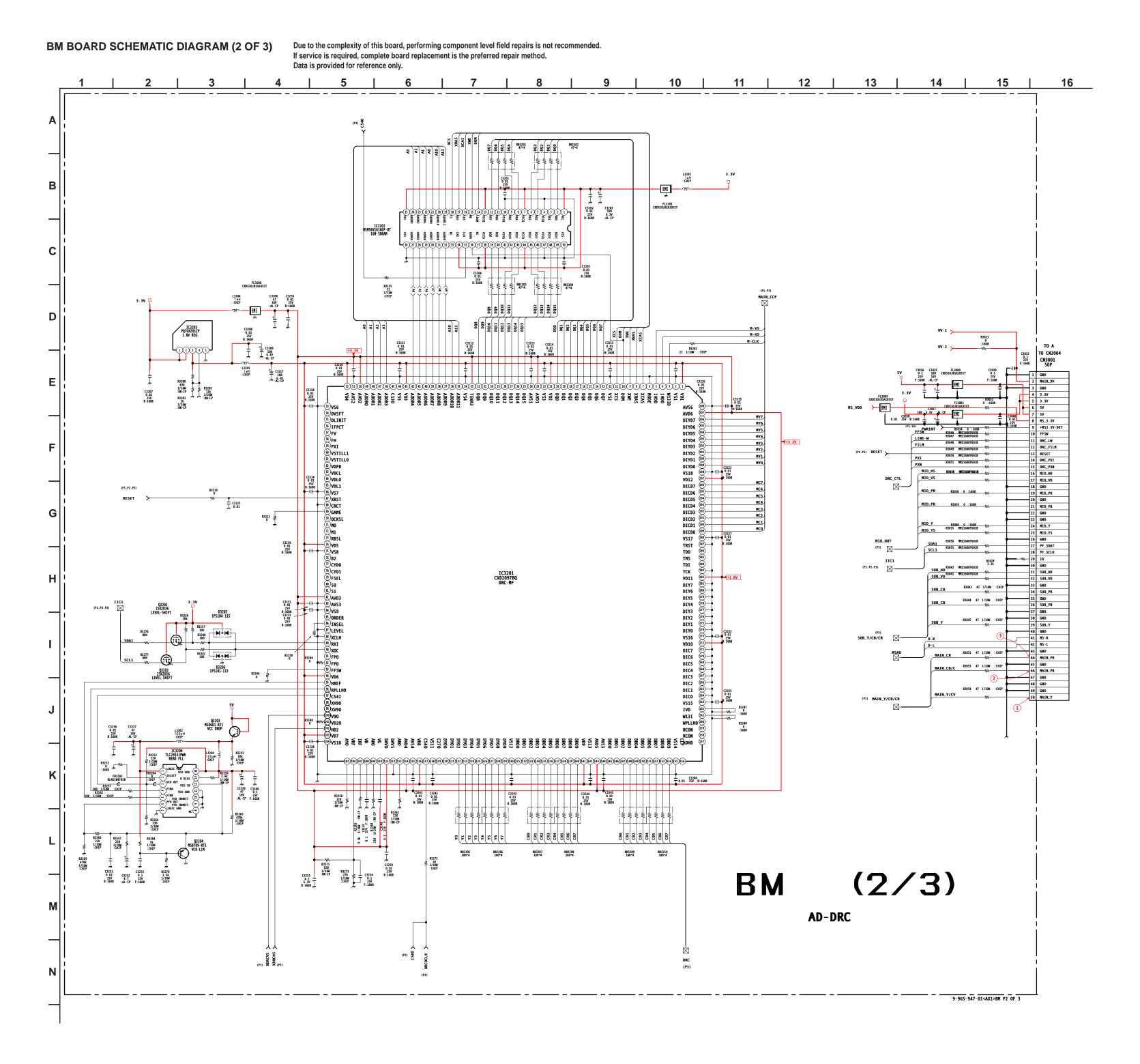








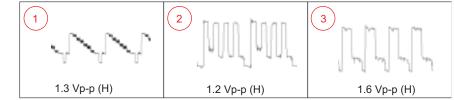


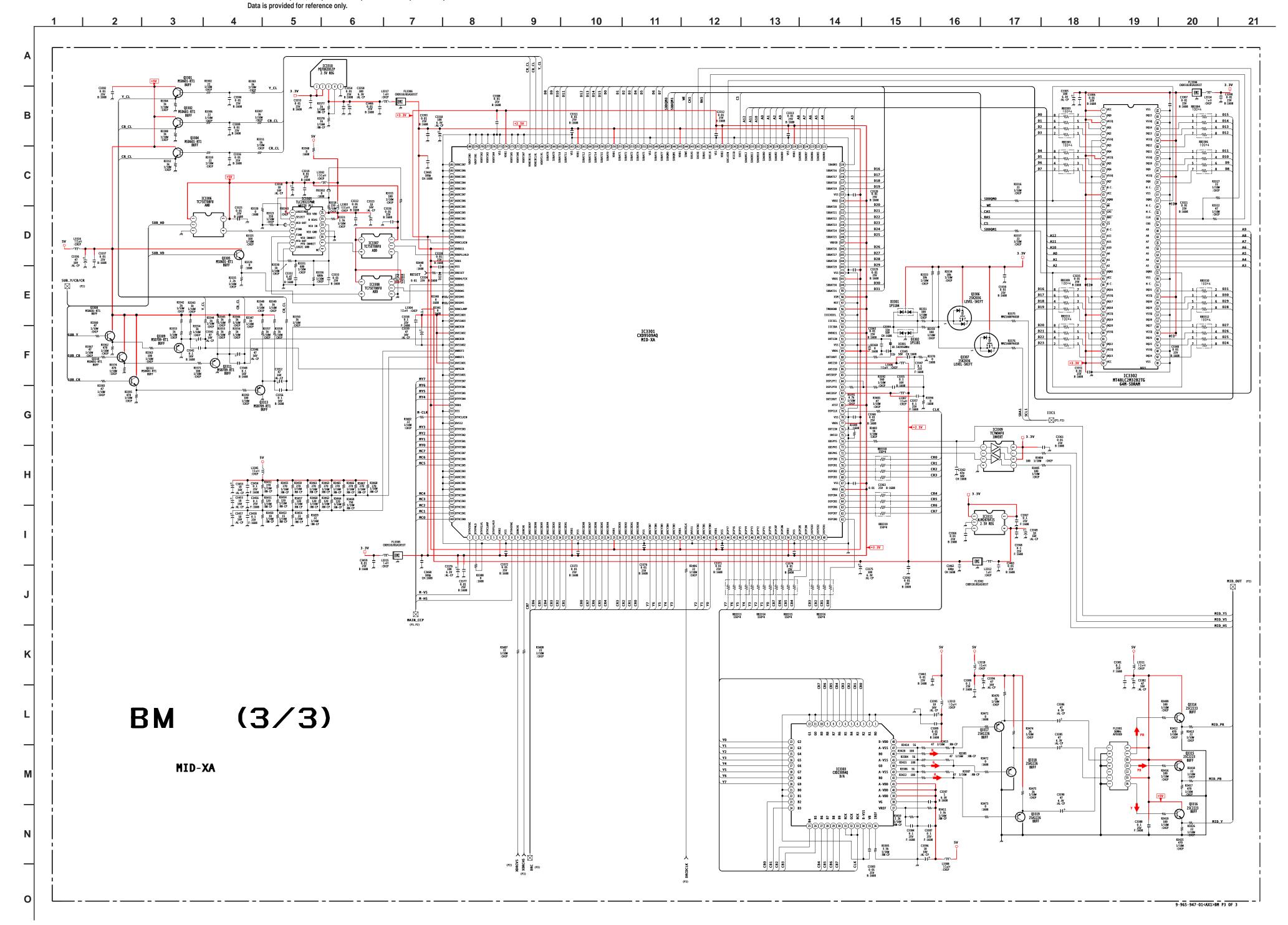


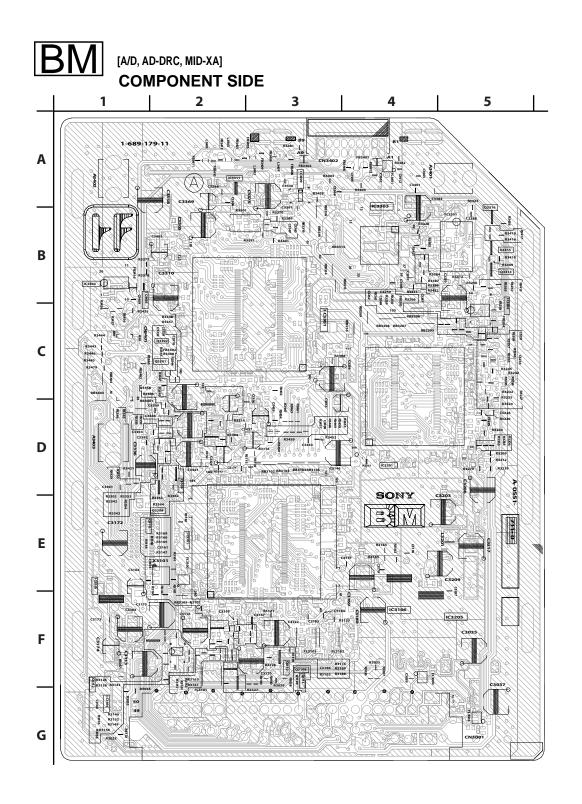
**— 74 —** 

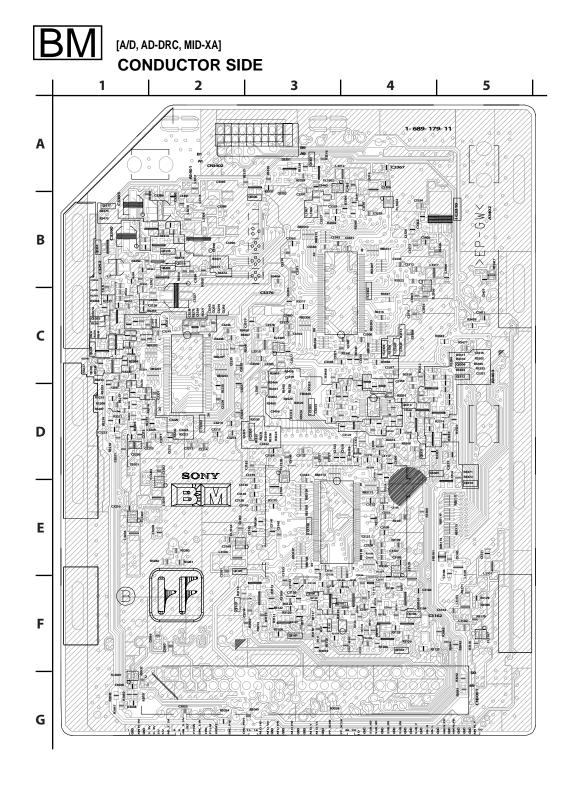
#### KDP-51WS550/57WS550/65WS550

# **BM BOARD WAVEFORMS**

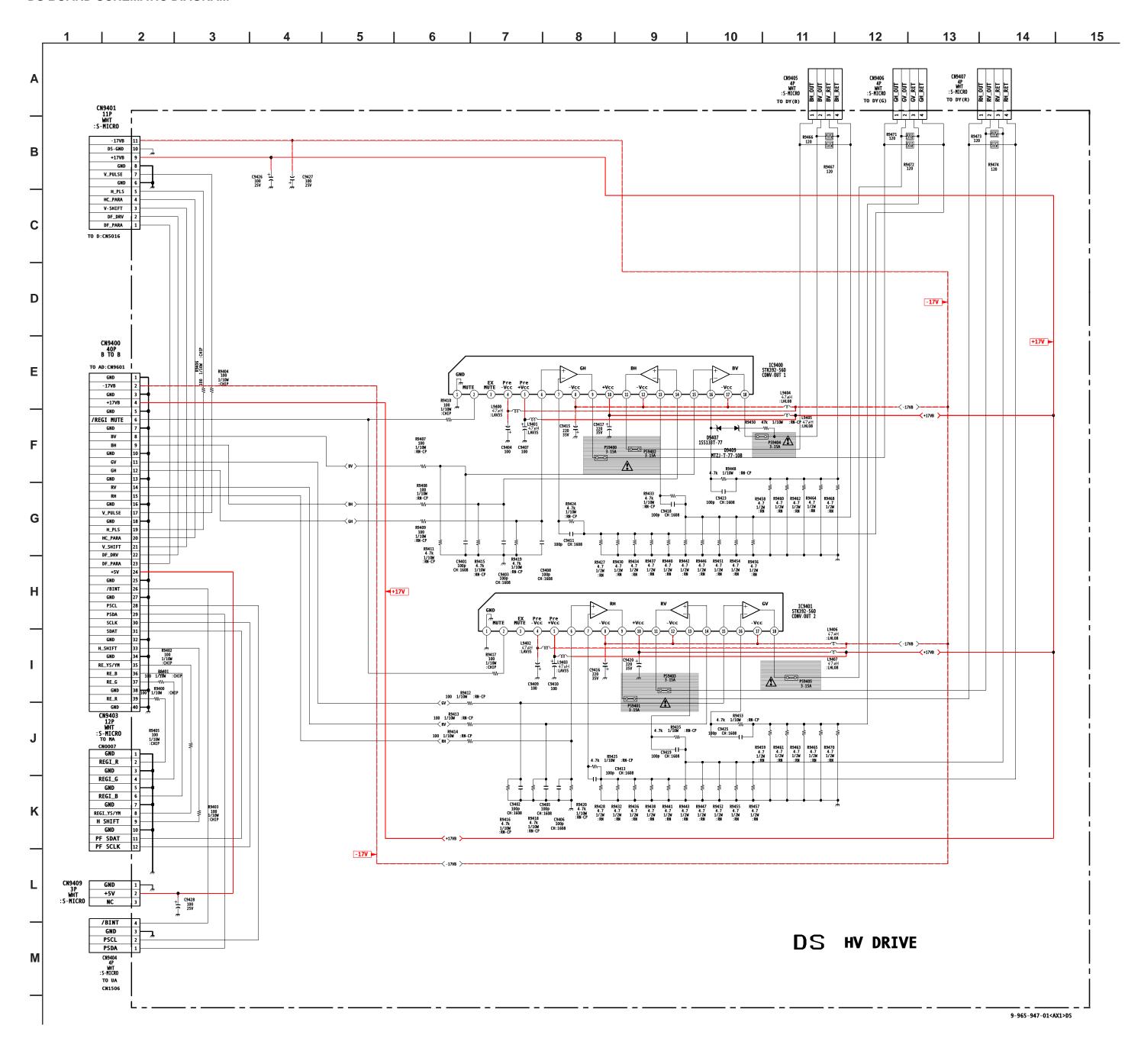








## DS BOARD SCHEMATIC DIAGRAM

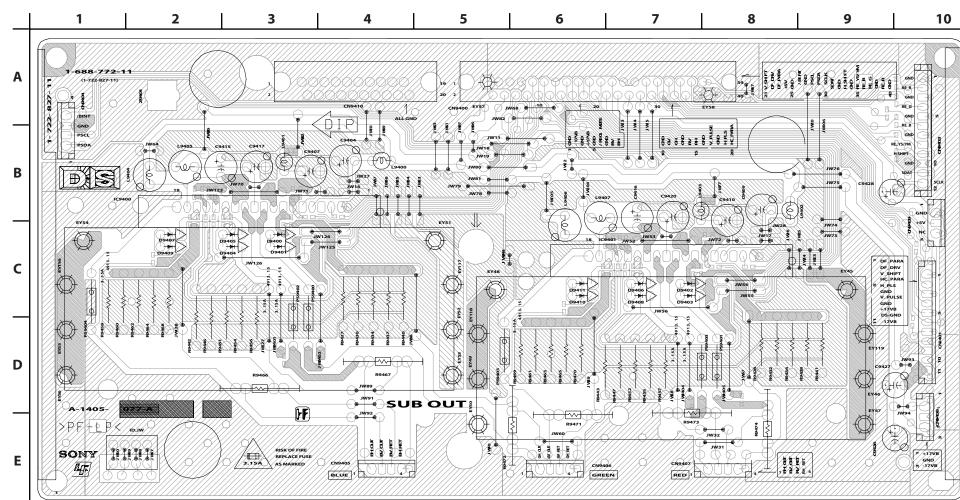


## **DS BOARD IC VOLTAGE LIST**

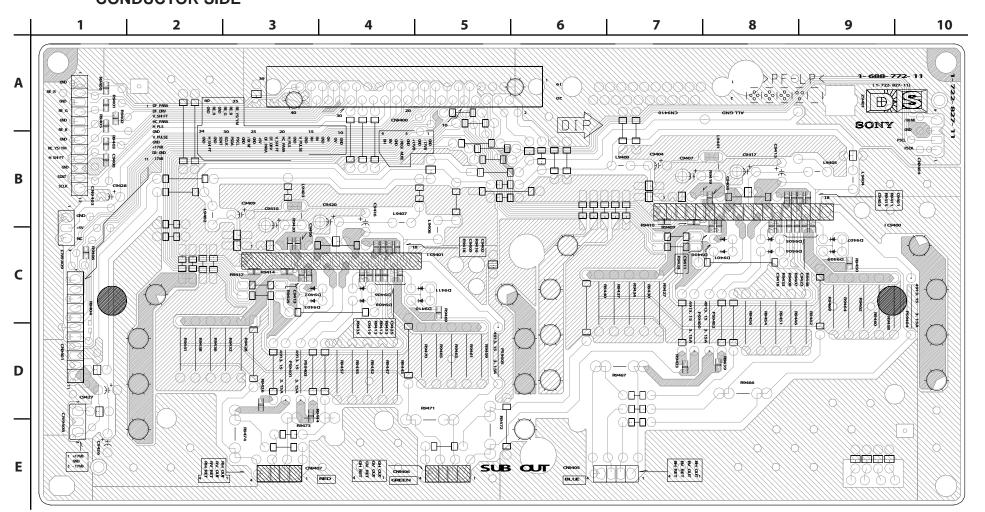
IC9	400	IC9	401
PIN	VOLT	PIN	VOLT
1	GND	1	GND
2	4.3	2	4.3
3	N/C	3	N/C
4	-17.0	4	-17.0
5	17.0	5	17.0
6	-0.3	6	-0.1
7	-0.3	7	-0.1
8	-17.0	8	-17.0
9	-0.5	9	0.0
10	17.0	10	17.0
11	0.1	11	0.5
12	-17.0	12	-17.0
13	0.0	13	0.3
14	0.0	14	0.3
15	0.0	15	0
16	0.0	16	0
17	-17.0	17	-17.0
18	0.1	18	0.1



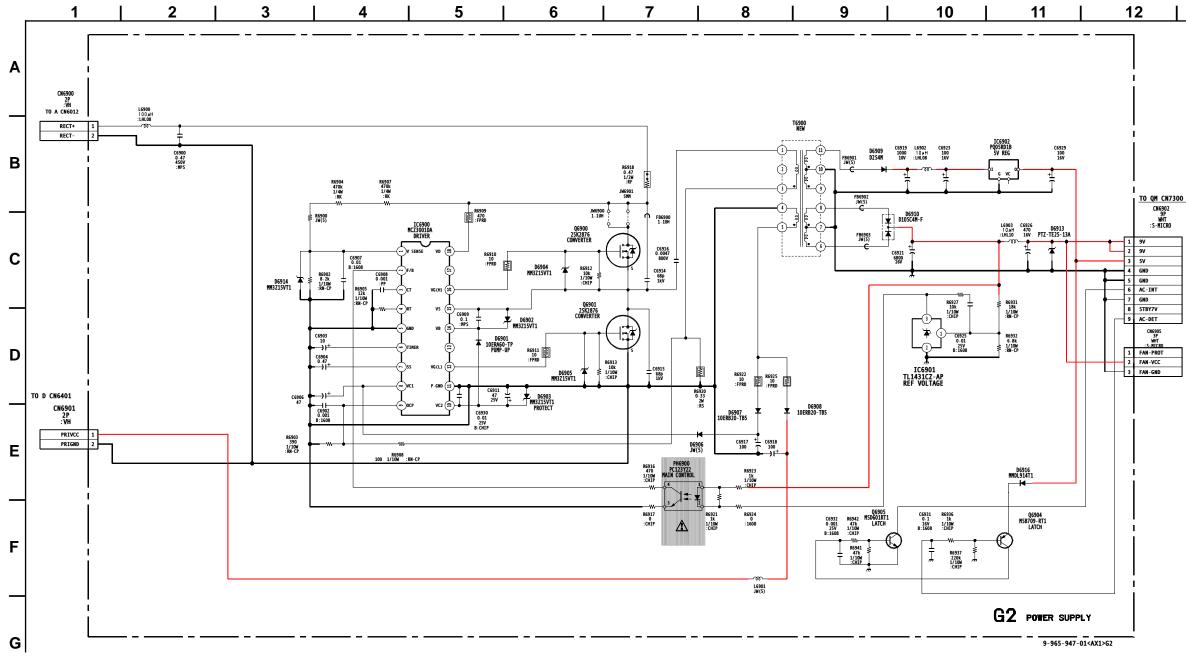
All voltages are in V.



# [HV DRIVE] CONDUCTOR SIDE



## **G2 BOARD SCHEMATIC DIAGRAM**



## **G2 BOARD IC VOLTAGE LIST**

	J7 (1 C )	• • • • • • • • • • • • • • • • • • • •	,
ICe	901	IC6	900
PIN	VOLT	PIN	VOLT
1	2.4	1	2.8
2	GND	2	1.9
3	6.1	3	2.2
ICe	902	4	1.5
PIN	VOLT	5	GND
ı	6.7	6	0.0
0	5.0	7	4.6
G	GND	8	20.1
		9	0.0
		10	10.5
		11	GND
		12	4.9
		13	N/C
		14	155.6
		15	145.6
		16	150.6
		17	N/C
		18	304.5

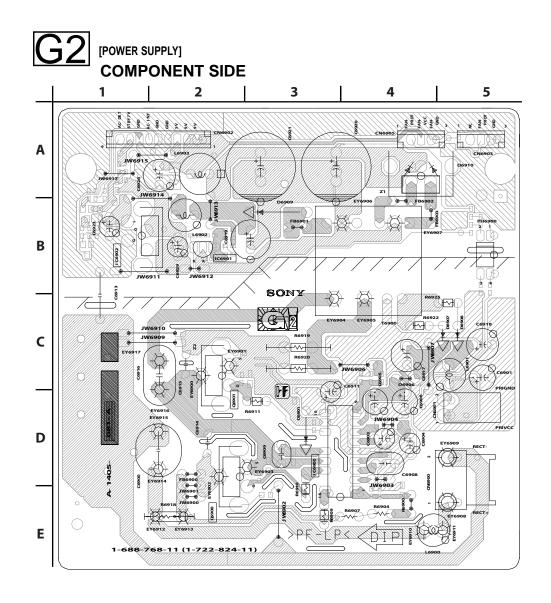
All voltages are in V.

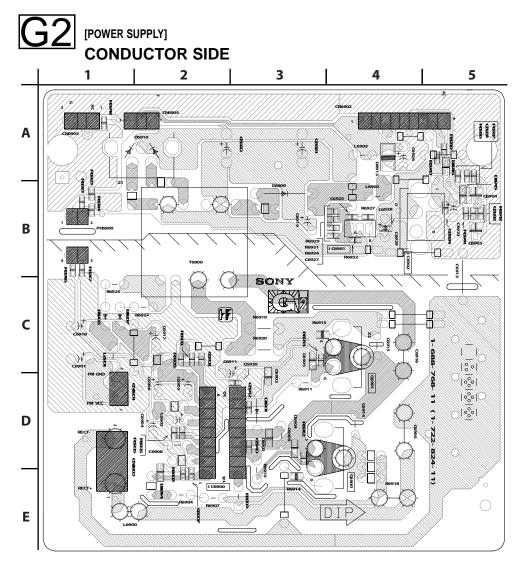
## **G2 BOARD TRANSISTOR VOLTAGE LIST**

	В	С	Е
Q6904	7.5	4.9	0.0
Q6905	0.0	0.0	3.0

	D	G	S
Q6900	156.0	4.9	0.0
Q6901	302.5	160.0	156.0

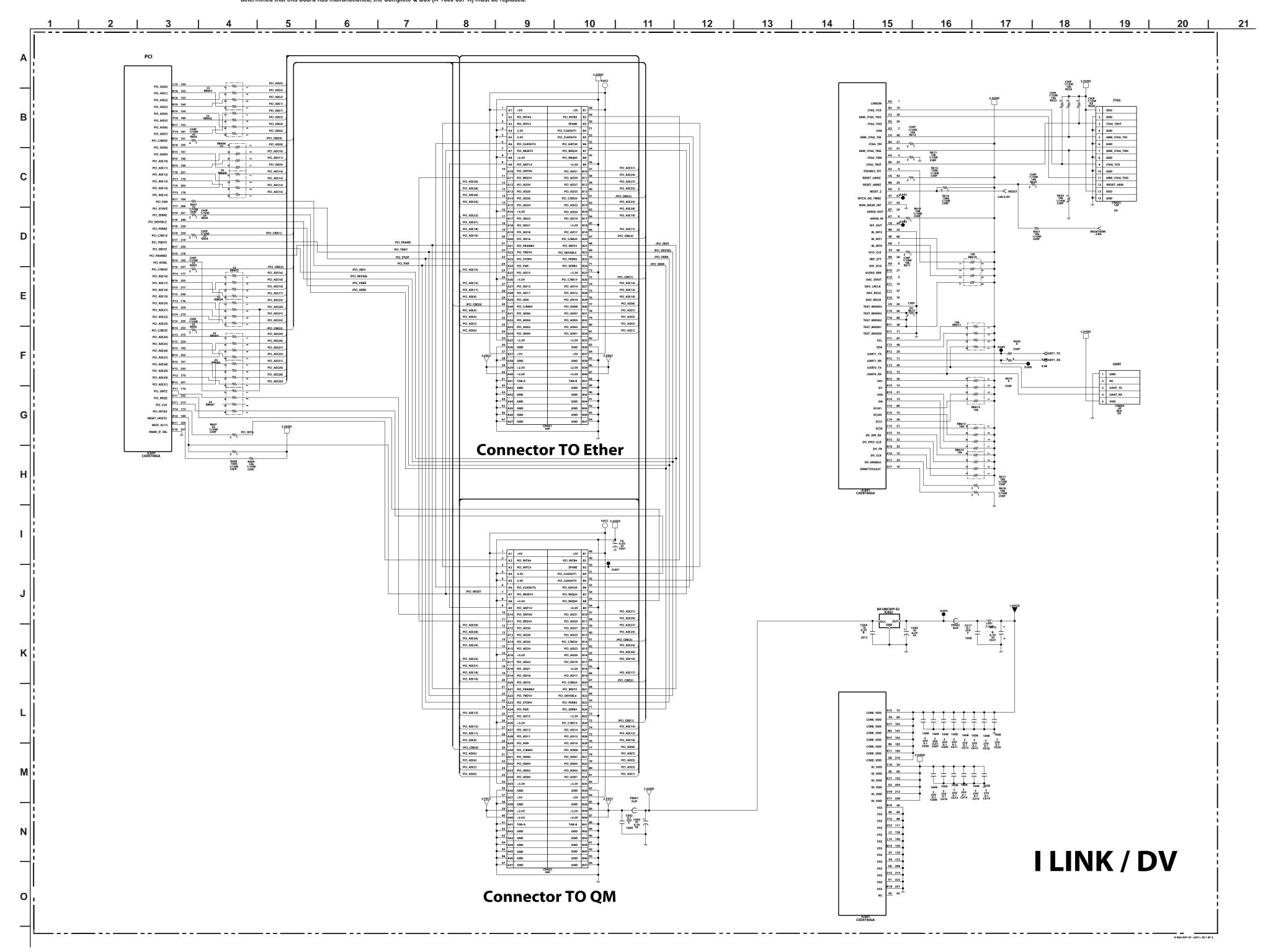
All voltages are in V.

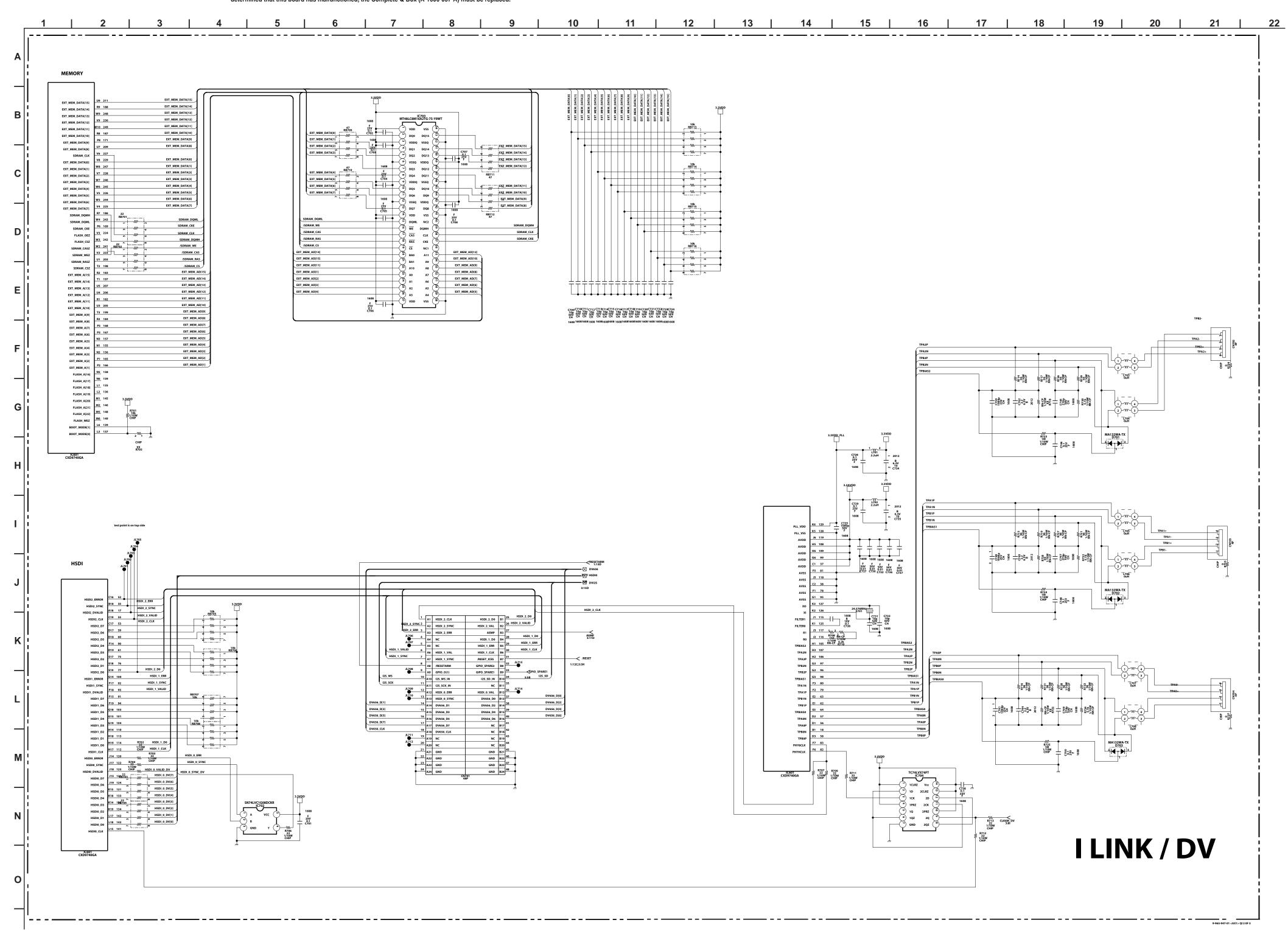


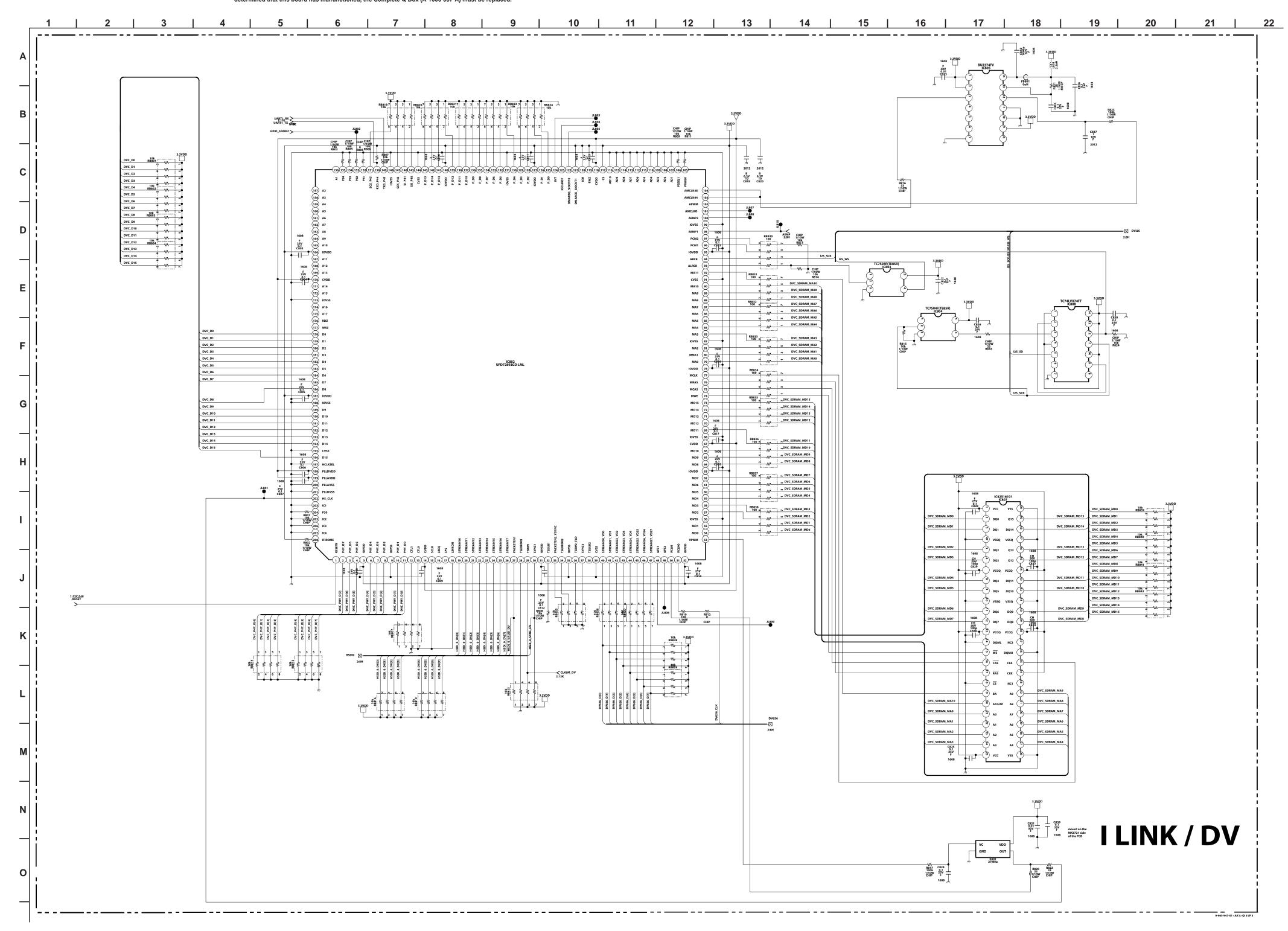


# **G2 BOARD LOCATOR LIST**

DIC	DE	I(	С		
D6901	D-3	IC6900	D-2		
D6902	D-3	IC6901	B-4		
D6903	D-3	IC6902	B-4		
D6904	D-3	TRANSISTOR			
D6905	C-3	Q6900	D-3		
D6907	C-1	Q6901	C-4		
D6908	C-1	Q6904	B-5		
D6909	B-3	Q6905	B-5		
D6910	A-1				
D6913	A-4				
D6914	E-2				
D6916	A-5				

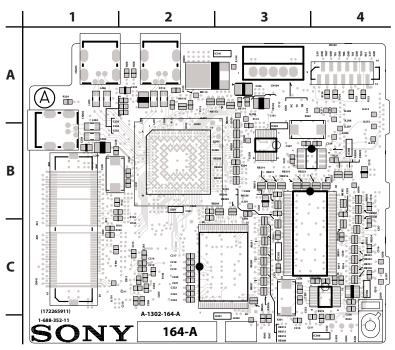


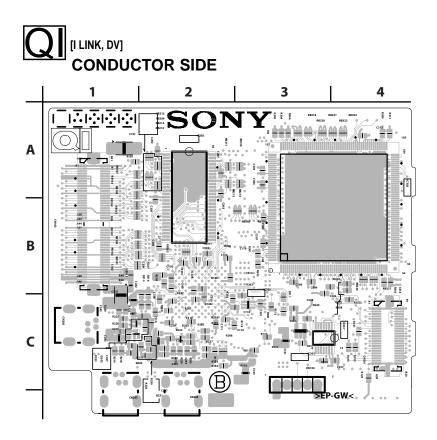


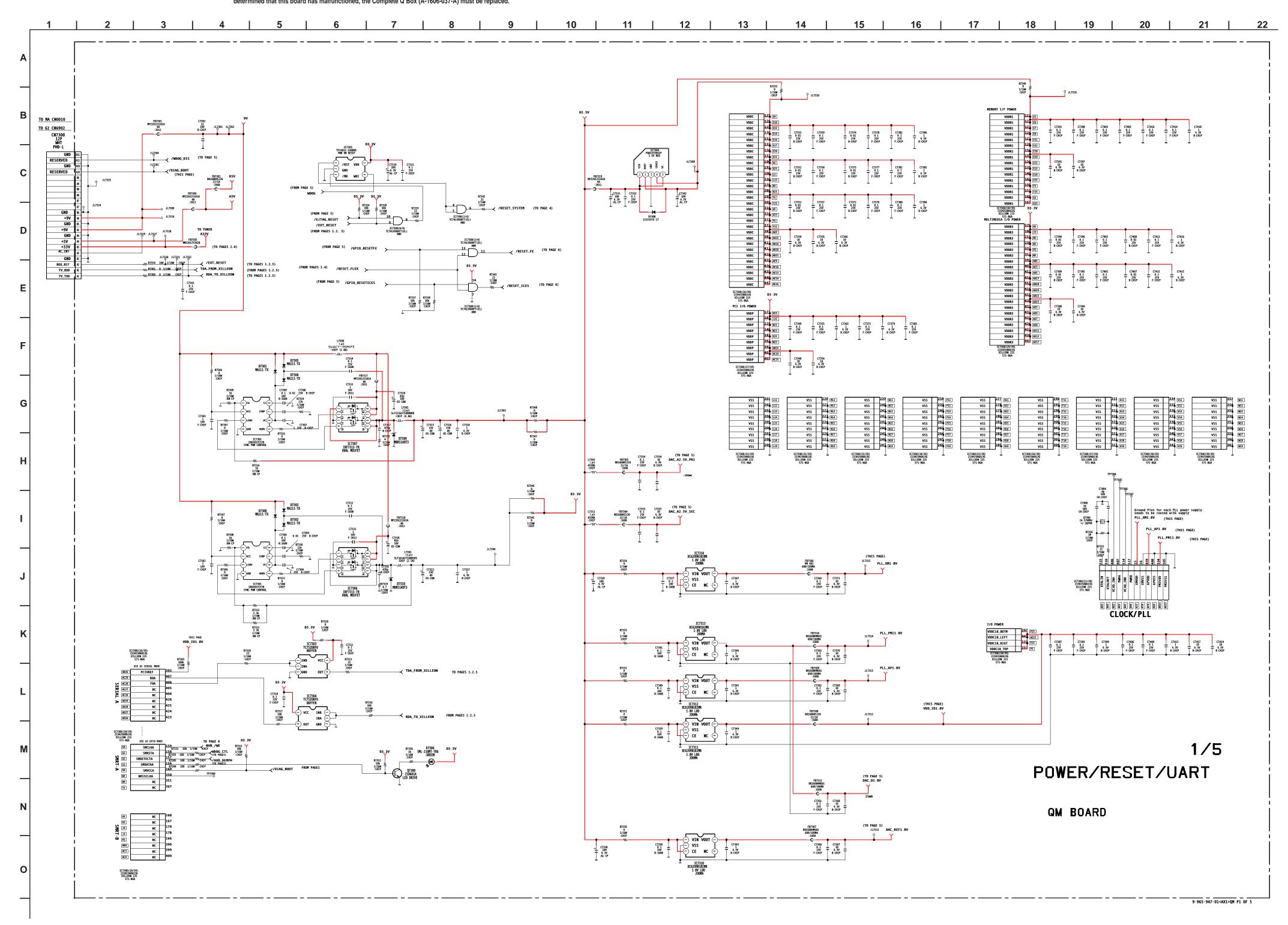


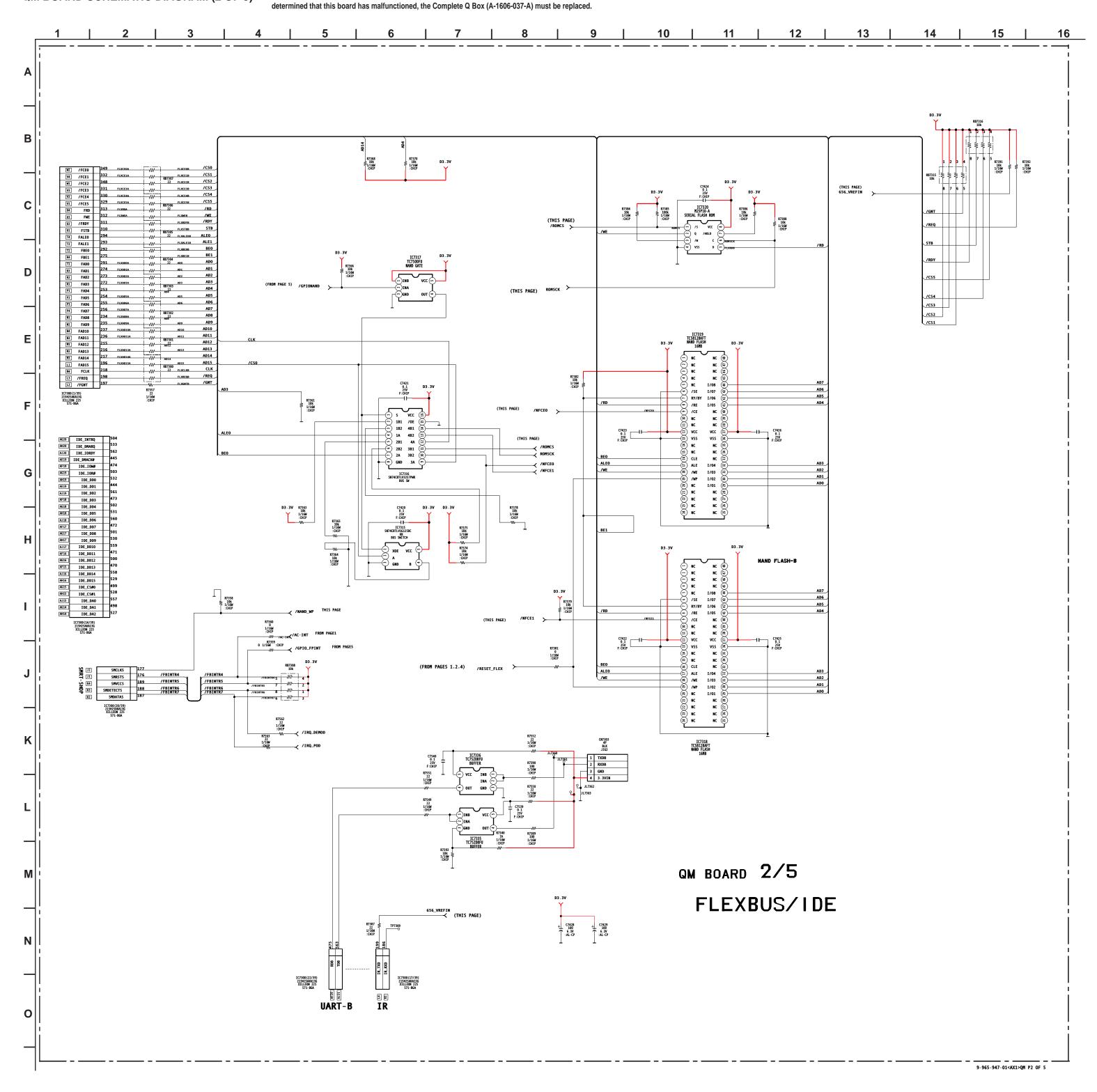


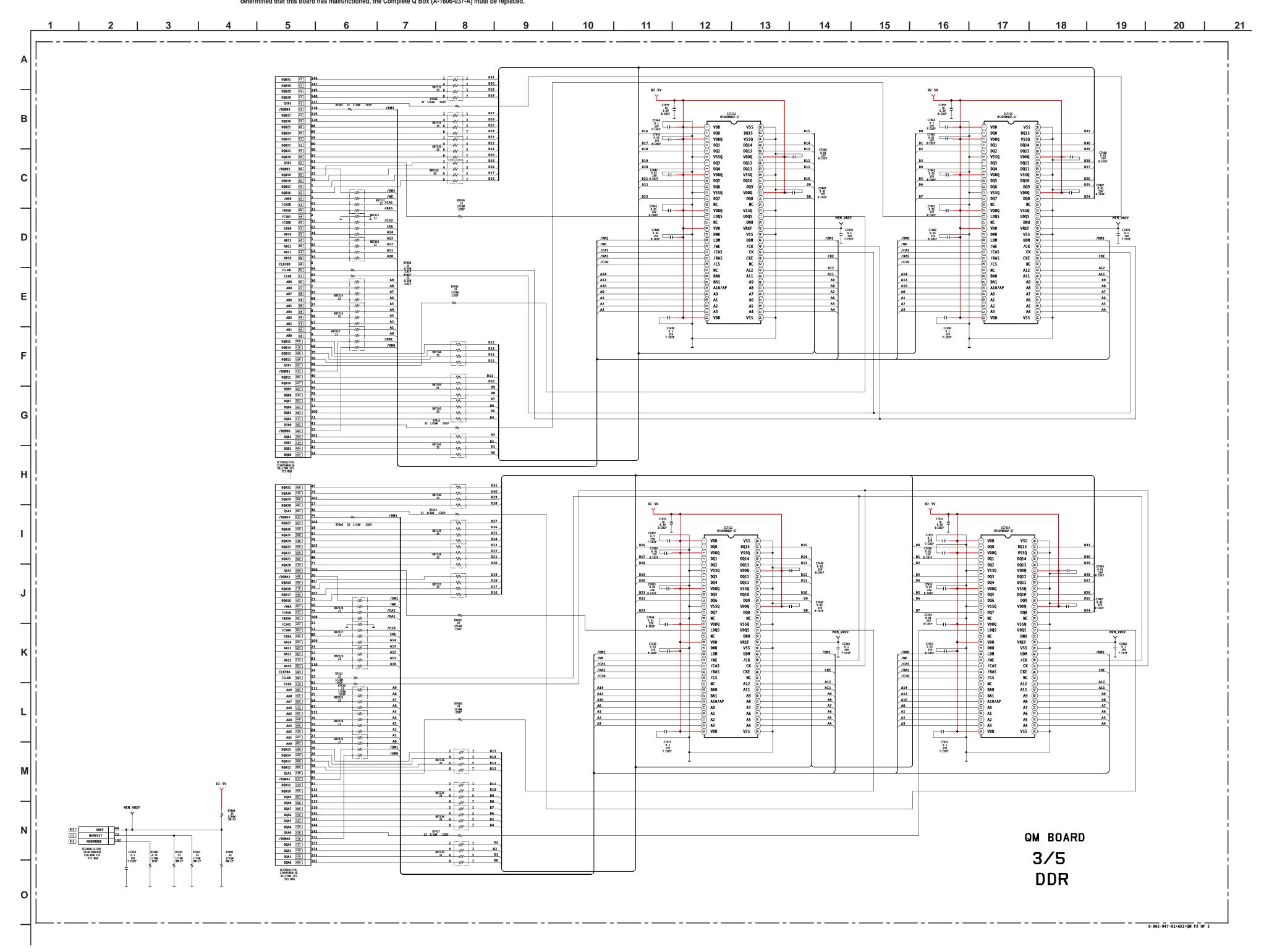
Due to the complexity of this board, performing component level field repairs is not recommended. If it is determined that this board has malfunctioned, the Complete Q Box (A-1606-037-A) must be replaced.

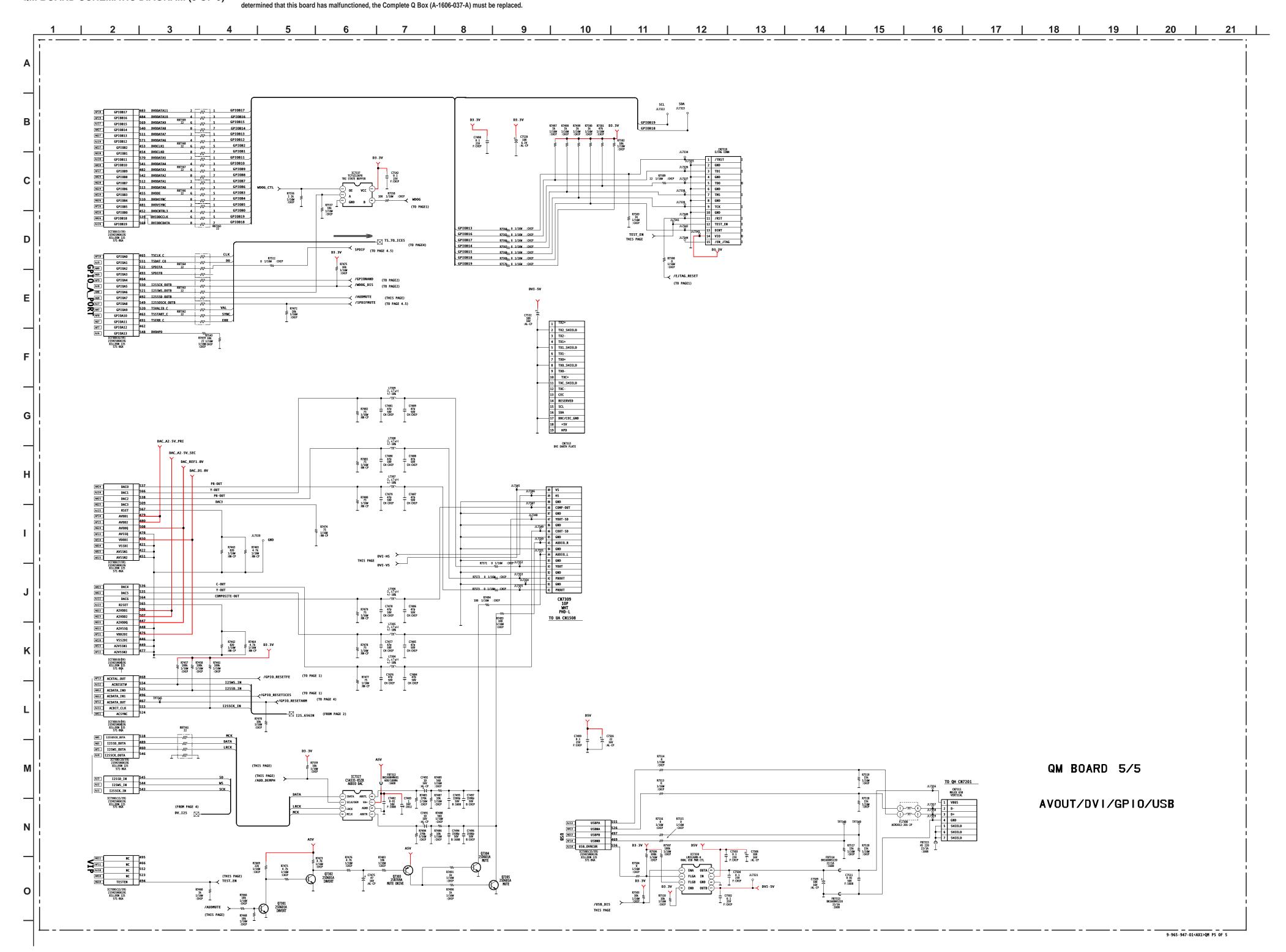




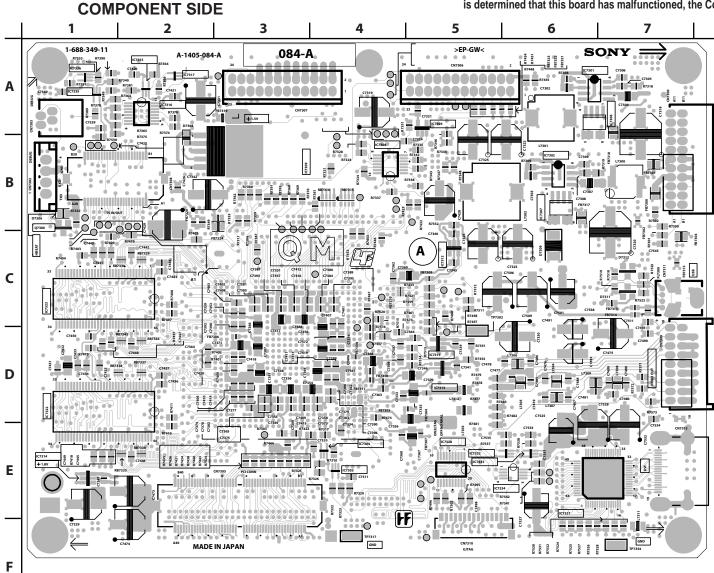






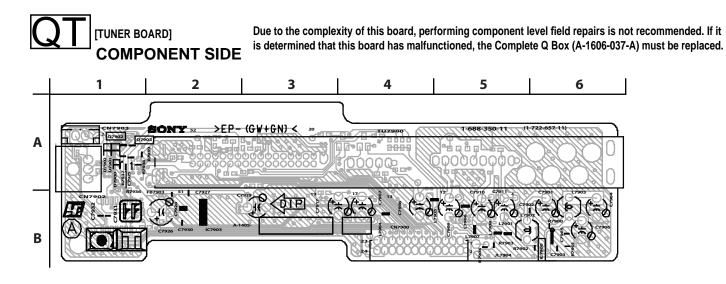


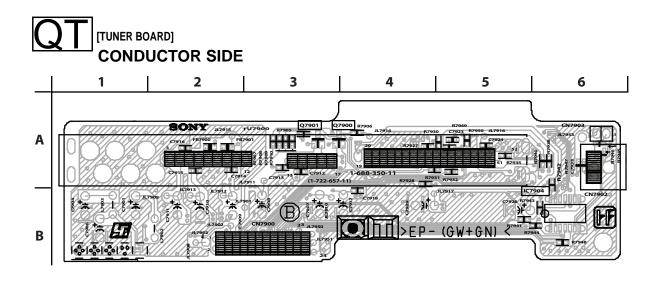
[POWER, RESET, UART, FLEXBUS, IDE, DDR, PCI, FE-TS, AVOUT, DVI, GPIO, USB] Due to the complexity of this board, performing component level field repairs is not recommended. If it is determined that this board has malfunctioned, the Complete Q Box (A-1606-037-A) must be replaced.



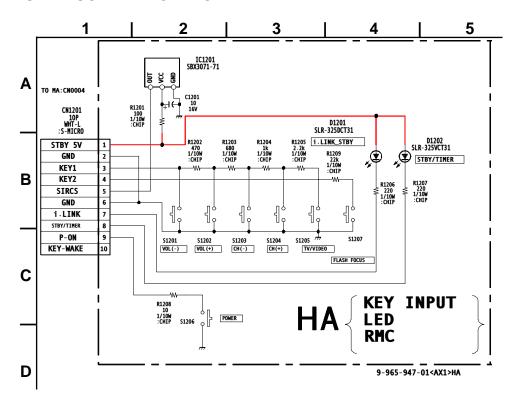
[POWER, RESET, UART, FLEXBUS, IDE, DDR, PCI, FE-TS, AVOUT, DVI, GPIO, USB]

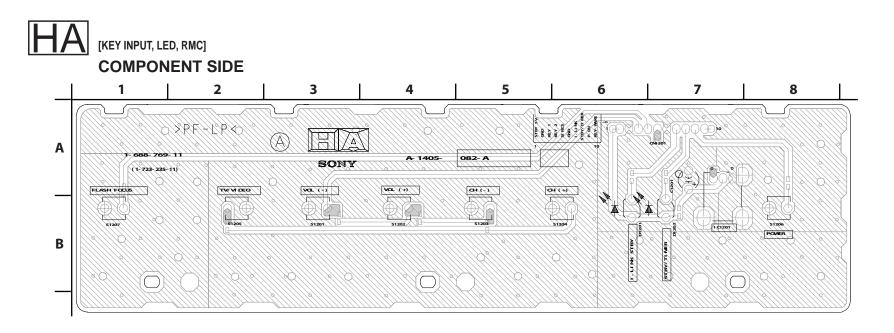
Due to the complexity of this board, performing component level field repairs is not recommended. If it is determined that this board has malfunctioned, the Complete Q Box (A-1606-037-A) must be replaced. **CONDUCTOR SIDE** SON NY MISIAWW Α В C D Ε F

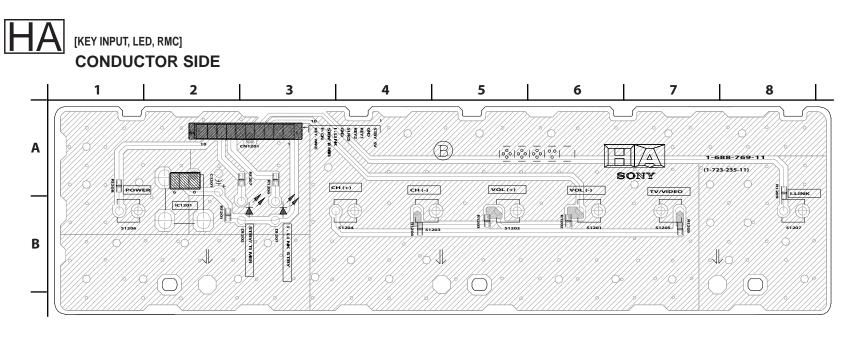




## HA BOARD SCHEMATIC DIAGRAM

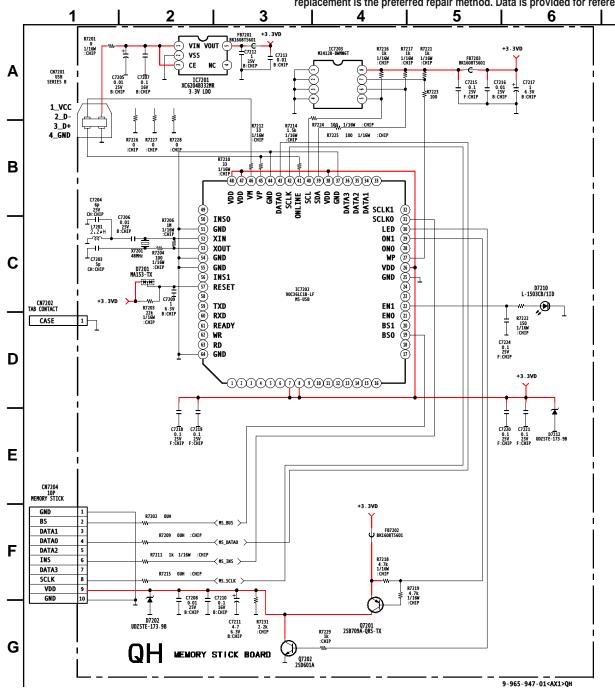


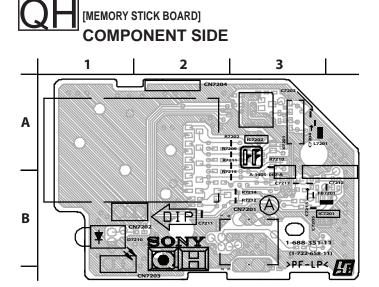


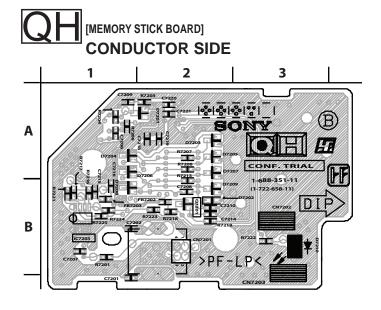


#### **QH BOARD SCHEMATIC DIAGRAM**

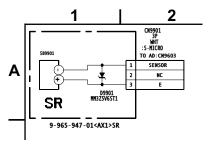
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



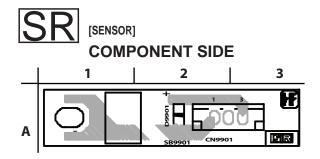


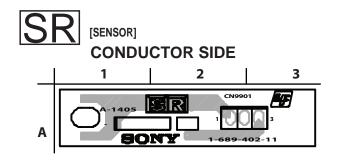


## SR BOARD SCHEMATIC DIAGRAM Due to the complexity of this board, performing

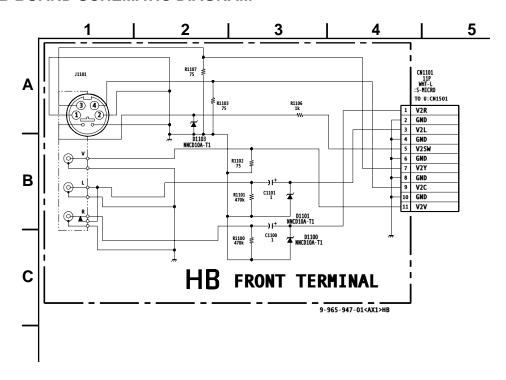


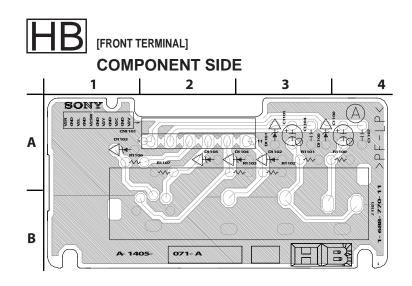
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

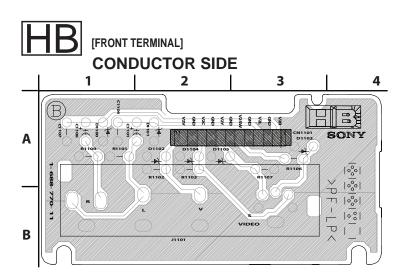




## **HB BOARD SCHEMATIC DIAGRAM**

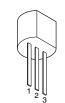




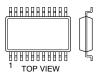


#### 5-5. SEMICONDUCTORS

AN77L12-TA NJM78L12A-T3 NJM79L05A NJM79L05A-T3

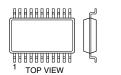


BA9759F-E2



18pin SOP

#### CD0031AM



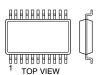
48pin SOP

#### CM0017AF



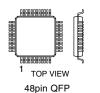
100pin QFP

#### CXA1726AM CXA1726AM-T6

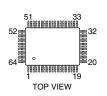


30pin SOP

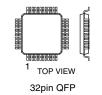




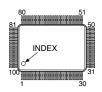
#### **CXA2069Q** CXA2150AQ



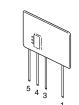
CXD2073Q-T4



CXP961064-001Q M306V2ME-154FP µPD64082GF-3BA



DM-58



LA6500-FA LA6500P-FA



LA78045 TDA2052



MAX4450EUK-TG069

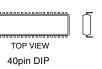




NJM7805FA NJM7812FA PQ09RF21 **TA7805S TA7812S** 









MCZ3001D



MC7805CT MC7812CT



MM1476AF(TP)



MSM514265C-60JS μPD424210LE-60-E2

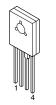


NJW1106FC2

NJM2395AF05

NJM2395F09





PST9143NL

M24C04-WMN6T(A)

M24C32-WMN6T(A)

NJM2068V-TE2

NJM2903M NJM2903M-TE2

NJM2904M

NJM2521M(TE2)

NJM2904M(TE2)

NJM4558M-T2

NJM4558M-TE2

NJM4558V-TE2

µPC4558G2

ARARARARAA

TOP VIEW

8pin SOP

TC74HCT157AF

RRRRRRRRRR

TOP VIEW

16pin SOP

NJM2391DL1-33-TEI

TC74HCT157AF(EL)

TC74LVX157FT(EL)

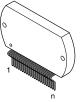
M52055FP



SBX1971-51P

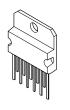


STK392-560



n=18pin





TDA7312



PQ30RV11



TOP VIEW 30pin DIP



µPC393C

TOP VIEW

8pin DIP

2SC5511

2SA1226

2SA1358-Y

2SC3421-Y

2SC2688(5)-LK

LETTER SIDE

2SA1037AK-T146-QR 2SA1037AK-T146-R

2SA1226-T1E3E4

2SB709A-QRS-TX

2SD601A-QRS-TX

2SC2412K-T-146-QR 2SD601A-Q

2SC1623-L5L6



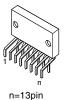
IRFIB7N50A-LF31



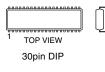
1MB12-140-F153A 2SA2005 2SC4634LS-CB11



TDA6120Q/N2/S1



**TDA7265** 

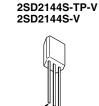


μPC1093J-1-T



2SC5681-YB





2SJ585LS-CC11



2SK2876-01MR-F122



2SK3018-T106



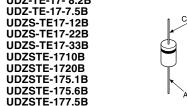
DAN202K DAN202K-T-146



DAP202K DAP202K-T-146



D2L20U-F ERC04-06SE



DTZ10B

MA111-TX

UDZ-TE-17- 8.2B

UDZSTE-178.2B

CATHODE

1SS355TE-17

D1NL20U

D2L20U

D1NL20U-TA2

ERA22-08TP3

MTZJ-T-77-18B

MTZJ-T-77-22B

MTZJ-T-77-5.6B

RGP02-17EL-6433

RGP02-17PKG23

CATHODE

ANODE

RGP10GPKG23 S2L40F

10ERA60-TP

**1SS83** 

1SS83TD

D10SC6M

D2L20U-TA EL1Z

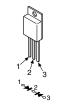
ERA22-08

GP08D GP08DPKG23

D2SB60A-F04 D4SBS4-F D6SB60LF

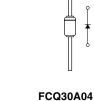


D25SC6MF04





ERD07-15L

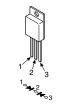


D10SC6MR









D25SC6MRF04







FMQ-G5FMS PG124S15



MTZJ-T-77-15B MTZJ-T-77-20B MTZJ-T-77-5.1B RD15ES-B2 RD18ES-B2 RD20ES-B2 RD5.1ESB2 RD5.6ESB2 1SS133T-77



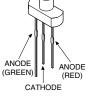
PC123F2 PC123FY2



**SLR-325VCT31** 



SPR-325MVW



## **SECTION 6: EXPLODED VIEWS**

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

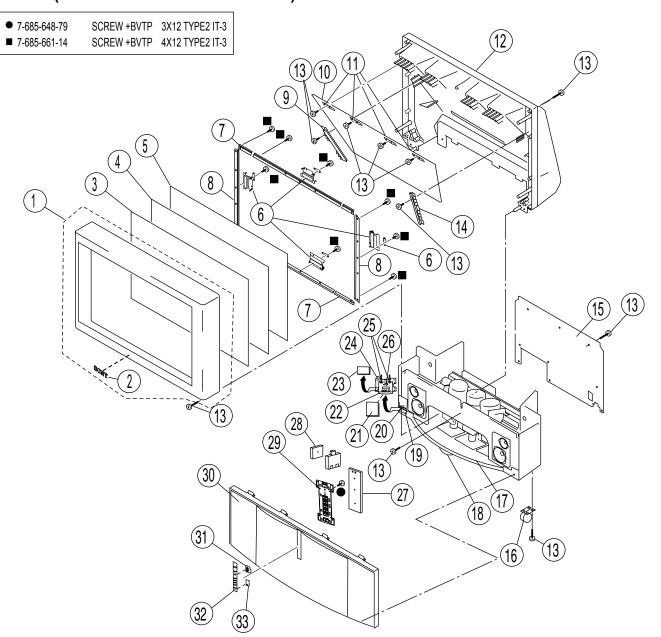
The component parts of an assembly are indicated by the \* Items marked with an asterisk are not stocked since reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

# 6-1. COVER (KDP-51WS550/57WS550 ONLY)



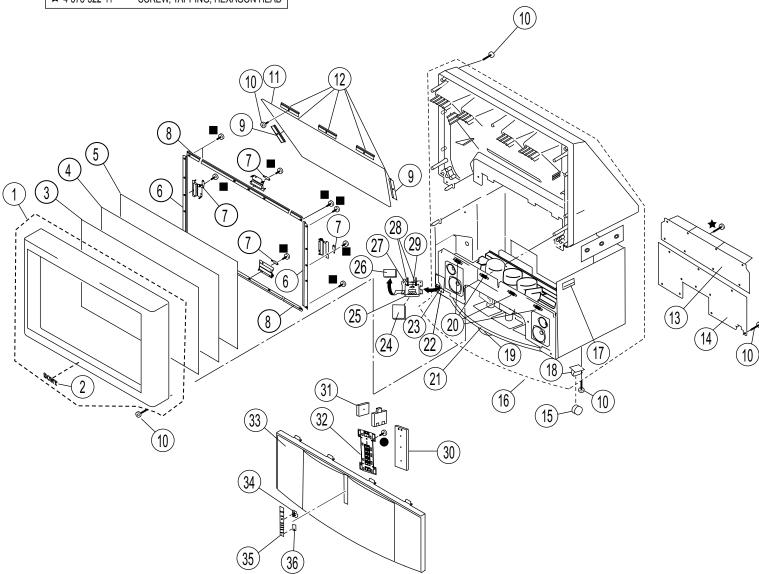
#### KDP-51WS550/57WS550/65WS550

REF.NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES		REF.NO.	PART NO.	DESCRIPTION
1	X-4041-774-1	BEZEL (51) ASSEME	BLY (2)	*	12	4-083-467-01	COVER (51), MIRROR
		(KDP-51WS550 ONL	.Y)				(KDP-51WS550 ONLY)
1	X-4041-765-1	BEZEL (57) ASSEME	BLY (2)		12	X-4039-824-1	COVER (57) ASSEMBLY, MIRROR
		(KDP-57WS550 ONL					(KDP-57WS550 ONLY)
2	3-704-179-01	EMBLEM (NO.9), SC	NY		13	4-081-063-01	SCREW, DOME WASHER HEX TAP 4X20
		(KDP-51WS550 ONL	.Y)	*	14	4-083-459-01	HOLDER (R), MIRROR SIDE
2	4-381-079-01	EMBLEM (NO.10), S	ONY				(KDP-51WS550 ONLY)
		(KDP-57WS550 ONL	.Y)	*	14	4-083-461-01	HOLDER (R), MIRROR SIDE
3	4-081-954-11	SCREEN (51W), CO	NTRAST				(KDP-57WS550 ONLY)
		(KDP-51WS550 ONL	.Y)	*	15	4-094-557-01	BOARD (51), REAR
3	4-086-327-11	SCREEN (57W), CO	NTRAST				(KDP-51WS550 ONLY)
		(KDP-57WS550 ONL	.Y)	*	15	4-094-519-01	BOARD (57), REAR
4	4-095-388-11	PLATE (51WL), DIFF	USION				(KDP-57WS550 ONLY)
		(KDP-51WS550 ONL	.Y)		16	4-040-755-01	CASTER (DIA. 30)
4	4-095-924-11	PLATE (57WL), DIFF	USION				(KDP-51WS550/57WS550 ONLY)
		(KDP-57WS550 ONL	.Y)		17	4-094-558-01	SKIRT (51), FRONT
5	4-081-953-11	PLATE (51WFV), DIF	FUSION				(KDP-51WS550 ONLY)
		(KDP-51WS550 ONL	.Y)		17	4-094-520-01	SKIRT (57), FRONT
5	4-081-950-11	PLATE (57WFV), DIF	FUSION				(KDP-57WS550 ONLY)
		(KDP-57WS550 ONL	.Y)		18	4-075-020-01	FOOT, PLASTIC
* 6	A-1405-083-A	SR BOARD, MOUNT	ED		19	4-094-556-01	LABEL, INPUT TERMINAL
* 7	4-084-617-02	HOLDER, SCREEN			20	4-088-569-02	BRACKET, INPUT TERMINAL
		(KDP-51WS550 ONL	.Y)		21	4-088-571-02	PLATE, INPUT TERMINAL
* 7	4-084-568-02	HOLDER, SCREEN			22	3-973-975-41	DAMPER, OIL
•		(KDP-57WS550 ONL	.Y)	*	23	A-1405-071-A	HB BOARD, MOUNTED
* 8	4-084-617-12	HOLDER, SCREEN		*	24	4-094-555-01	COVER, INPUT TERMINAL
		(KDP-51WS550 ONL	.Y)		25	4-088-573-01	SPRING
* 8	4-084-568-12	HOLDER, SCREEN			26	4-047-464-01	CATCHER, PUSH
		(KDP-57WS550 ONL	.Y)	*	27	A-1302-165-A	QH BOARD, COMPLETE
* 9	4-083-460-01	HOLDER (L), MIRRO	OR SIDE	*	28	A-1405-082-A	HA BOARD, MOUNTED
		(KDP-51WS550 ONL	.Y)		29	4-094-562-01	BUTTON, MULTI
* 9	4-083-462-01	HOLDER (L), MIRRO	OR SIDE		30	X-4041-773-1	GRILLE (51) ASSEMBLY, SPEAKER
		(KDP-57WS550 ONL	.Y)				(KDP-51WS550 ONLY)
10	4-084-615-01	MIRROR (51)			30	X-4041-767-1	GRILLE (57) ASSEMBLY, SPEAKER
		(KDP-51WS550 ONL	.Y)				(KDP-57WS550 ONLY)
10	4-084-561-02	MIRROR (57)			31	4-088-588-01	GUIDE (HM), LED
		(KDP-57WS550 ONL	.Y)		32	4-094-561-01	PANEL, CONTROL
* 11	4-081-501-01	HOLDER, MIRROR			33	4-088-586-01	GUIDE, LED
		(KDP-51WS550/57W	/S550 ONLY)				

**— 99 —** 

# 6-2. COVER (KDP-65WS550 0NLY)

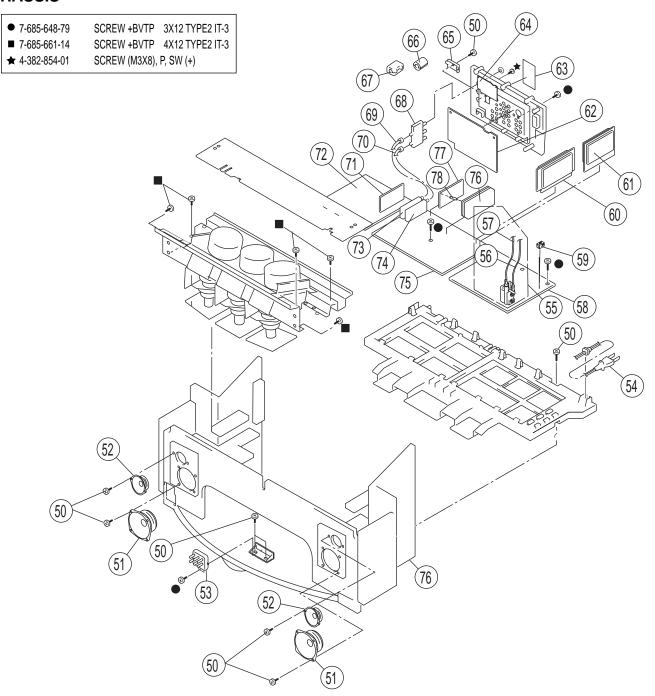




ı	REF.NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES		REF.NO.	PART NO.	DESCRIPTION
	1	X-4041-770-1	BEZNET (65) ASSEI	MBLY (2)		21	4-094-526-01	SKIRT (65), FRONT
	2	4-381-079-01	EMBLEM (NO.10), S	ONY		22	4-094-556-01	LABEL, INPUT TERMINAL
	3	4-094-533-11	SCREEN (65W), CO	NTRAST		23	4-088-569-02	BRACKET, INPUT TERMINAL
	4	4-089-151-11	PLATE (65WL), DIFF	FUSION		24	4-088-571-02	PLATE, INPUT TERMINAL
	5	4-095-141-11	PLATE (65WFV), DII			25	3-973-975-41	DAMPER, OIL
*	6	4-089-179-01	HOLDER (65 SHOR	T), SCREEN	*	26	A-1405-071-A	HB BOARD, MOUNTED
*	7	A-1405-083-A	SR BOARD, MOUN	ΓED	*	27	4-094-555-01	COVER, INPUT TERMINAL
*	8	4-088-461-01	HOLDER, SCREEN			28	4-088-573-01	SPRING
	9	4-088-579-01	HOLDER, MIRROR	SLIDE		29	4-047-464-01	CATCHER, PUSH
	10	4-081-063-01		SHER HEX TAP 4X20	*	30	A-1302-165-A	QH BOARD, COMPLETE
*	11	4-088-577-01	MIRROR		*	31	A-1405-082-A	HA BOARD, MOUNTED
*	12	4-088-580-01	HOLDER, MIRROR	BASE		32	4-094-562-01	BUTTON, MULTI
*	13	4-095-958-01	BOARD, REAR TOP	(65)		33	X-4041-769-2	GRILLE (65) ASSEMBLY, SPEAKER
*	14	4-094-527-01	BOARD (65) BOTTO	M, REAR		34	4-088-588-01	GUIDE (HM), LED
	15	4-061-174-01	CASTER			35	4-094-561-01	PANEL, CONTROL
*	16	X-4041-768-1	CABINET ASSEMBL	Y (65) (17-20)		36	4-088-586-01	GUIDE, LED
*	17	4-088-541-01	HANDLE					
	18	4-030-850-01	SOCKET, CASTER					
	19	4-075-020-01	FOOT, PLASTIC					
*	20	4-094-879-01	H-CATCH					
					ı			

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

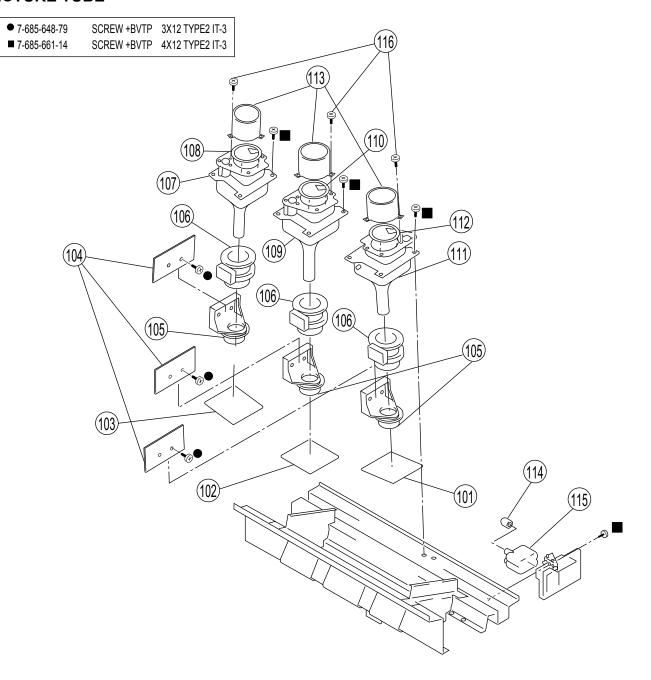
# 6-3. CHASSIS



	REF.NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES		REF.NO.	PART NO.	DESCRIPTION
	50	4-081-063-01	SCREW, DOME WAS			65	4-069-675-01	CAP, TERMINAL BOARD
	51	1-825-525-11	LOUDSPEAKER (130	CM)		66	1-469-241-11	CORE, FERRITE (RFC-8 BK)
	52	1-529-403-41	LOUDSPEAKER (6.60			67	1-500-497-11	FILTER, CLAMP (FERRITE CORE)
$\triangle$		1-223-925-34	RESISTOR ASSEMBI	•		68	1-786-183-12	SWITCH, ANTENNA
$\triangle$	54	1-769-837-11	CORD, POWER (WIT	H NOISE FILTER)	*	69	1-557-056-31	CABLE, P-P
Ţ		1-453-450-11	FBT ASSEMBLY NX-6	` '	*	70	1-555-110-00	CABLE, PIN
Ţ		1-779-095-51	LEAD ASSEMBLY, HI			71	A-1302-160-A	AD BOARD, COMPLETE
$\triangle$		1-900-260-40	CONNECTOR ASSEM		*	72	A-1405-077-A	DS BOARD, MOUNTED
*	58	A-1302-161-A	D BOARD, COMPLET			73	8-598-593-20	TUNER, FSS BTF-WA421
	-	-		D board are not included and		74	8-598-594-10	TUNER, FSS BTF-FA421
		dered separately. (	•					
	59	3-710-578-01	COVER, VOLUME, 6	MOLD	*	75	A-1302-158-A	A BOARD, COMPLETE
						<del>-</del> 76	A-1606-712-A	Q BOX (51RP) ASSEMBLY
*	60	A-1302-353-A	BM BOARD, COMPLI					(KDP-51WS550 ONLY)
*	61	A-1302-157-A	MA BOARD, COMPLE			<del>-</del> 76	A-1606-710-A	Q BOX (57RP) ASSEMBLY
*	62	A-1302-159-A	UA BOARD, COMPLE	ETE .				(KDP-57WS550 ONLY)
	63	4-094-552-01	LABEL, TERMINAL			<del>- </del> 76	A-1606-711-A	Q BOX (65RP) ASSEMBLY
*	64	A-1302-352-A	UD BOARD, COMPLE	ETE				(KDP-65WS550 ONLY)
								ox Assembly has malfunctioned it must be replaced as
						•	•	ards within this assembly, QI, QM, and QT,
						are not fiel	•	ollowing data is for reference only.
					*		A-1302-164-A	QI COMPLETE PC BOARD
					*		A-1302-554-A	QM COMPLETE PC BOARD
					*		A-1302-541-A	QT COMPLETE PC BOARD
					*	77	A-1405-081-A	G2 BOARD, MOUNTED
						78	4-385-948-41	HOLDER, PWB
						. •	. 555 5 15 11	

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

# 6-4. PICTURE TUBE



## KDP-51WS550/57WS550/65WS550

ı	REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
*	101	A-1405-080-A	CB BOARD, MOUNTED	<b>△</b> 111	A-1604-485-A	COUPLER (R) ASSEMBLY, CRT
*	102	A-1405-079-A	CG BOARD, MOUNTED			(KDP-51WS550 ONLY)
*	103	A-1405-078-A	CR BOARD, MOUNTED	<b>1</b> 11	A-1604-491-A	COUPLER (R) ASSEMBLY, CRT
*	104	A-1405-662-A	VM BOARD, MOUNTED			(KDP-57WS550 ONLY)
	105	1-451-535-12	COIL ASSEMBLY, VM	<b>1</b> 11	A-1604-497-A	COUPLER (R) ASSEMBLY, CRT (KDP-65WS550 ONLY)
	106	1-451-542-31	DEFLECTION YOKE			,
Λ	107	A-1604-487-A	COUPLER (B) ASSEMBLY, CRT (KDP-51WS550 ONLY)	112	4-096-118-01	SHADE (51-R) (KDP-51WS550 ONLY)
Λ	107	A-1604-493-A	COUPLER (B) ASSEMBLY, CRT (KDP-57WS550 ONLY)	112	4-096-145-01	SHADE, RED (KDP-57WS550/65WS550 ONLY)
Λ	107	A-1604-499-A	COUPLER (B) ASSEMBLY, CRT (KDP-65WS550 ONLY)	113	4-083-751-01	LENS (DELTA 250) (KDP-51WS550 ONLY)
			,	113	4-096-100-01	LENS (DELTA260TCM)
	108	4-096-146-01	SHADE, BLUE	110	1 000 100 01	(KDP-57WS550 ONLY)
			(KDP-57WS550 ONLY)	113	4-096-104-01	LENS (DELTA270TCM)
$ \Lambda $	109	A-1604-483-A	COUPLER (G) ASSEMBLY, CRT			(KDP-65WS550 ONLY)
	110	4-096-119-01	SHADE (51-G)			,
			(KDP-51WS550/57WS550 ONLY)	114	4-373-137-01	CAP (Z), RUBBER
	110	4-097-791-01	SHADE (G)	<b>△</b> 115	8-598-875-00	BLOCK ASSEMBLY, HIGH-VOLTAGE
			(KDP-65WS550 ONLY)	116	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3

## **SECTION 7: ELECTRICAL PARTS LIST**

NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: 

indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

#### **RESISTORS**

- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

	REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
7	<u> </u>							<u>IC</u>				
	<u> ۲</u>						IC9101	8-759-680-01	IC	TDA612	0Q/N2/S1	
	*	A-1405-078-A	CR BOARD, MOUNT									
		4-382-854-11	SCREW (M3X10), P, SV	V (+)				<u>JACK</u>				
		CAPACITOR				<u> </u>	J9101	1-251-182-11	SOCKET, CRT			
	C9101	1-104-570-11	CERAMIC	0.001µF 10%	2KV			COIL				
	C9102	1-162-919-11	CERAMIC CHIP	22pF 5%	50V		10404	4 444 050 44	INDUCTOR	40.11		
	C9103	1-164-156-11	CERAMIC CHIP	0.1µF	25V		L9101	1-414-856-11	INDUCTOR	10μH		
	C9105	1-107-962-11	ELECT	22µF 20%	250V		L9102	1-414-855-31	INDUCTOR	1µH		
	C9106	1-161-830-00	CERAMIC	0.0047µF	500V		L9103	1-414-856-11	INDUCTOR	10µH		
	C9107	1-101-003-00	CERAMIC	0.0047µF	50V			NEON LAMP				
	C9108	1-126-935-11	ELECT	470µF 20%	16V	$\wedge$	NL9102	1-517-778-21	LAMP, NEON			
	C9110	1-164-156-11	CERAMIC CHIP	0.1µF	25V	2:3	NL9102	1-517-778-21	LAMP, NEON			
	C9111	1-164-156-11	CERAMIC CHIP	0.1µF	25V		NESTOS	1-317-770-21	LAIVII , INLOIN			
	C9112	1-126-933-11	ELECT	100μF 20%	16V			TRANSISTOR				
	C9114	1-162-966-11	CERAMIC CHIP	0.0022µF 10%	50V		Q9101	8-729-010-29	TRANSISTOR	MSD601	-RST1	
	C9115	1-101-003-00	CERAMIC	0.0047µF	50V		Q9102	8-729-028-28	TRANSISTOR	2SK2036	S(TE85L)	
	C9117	1-164-156-11	CERAMIC CHIP	0.1μF	25V		Q9103	8-729-010-05	TRANSISTOR	MSB709	. ,	
	••••		0_1.00 01	٠.٠٠	-0.		Q9104	8-729-010-05	TRANSISTOR	MSB709	-RT1	
		CONNECTOR					Q9105	8-729-122-63	TRANSISTOR	2SA1226	6-E4	
*	CN9101	1-564-510-11	PLUG, CONNECTOR	7P				RESISTOR				
*	CN9102	1-564-507-11	PLUG, CONNECTOR	4P				KEGIOTOK				
*	CN9103	1-564-508-11	PLUG, CONNECTOR	5P			R9101	1-260-133-11	CARBON	680K	5%	1/2W
	CN9104	1-695-915-11	TAB (CONTACT)				R9102	1-249-425-11	CARBON	4.7K	5%	1/4W
	CN9107	1-785-879-11	CONNECTOR, ONE TO	UCH			R9103	1-216-809-11	METAL CHIP	100	5%	1/10W
							R9104	1-260-132-11	CARBON	560K	5%	1/2W
	CN9110	1-695-915-11	TAB (CONTACT)				R9105	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W
		DIODE					R9106	1-218-835-11	METAL CHIP	330	0.50%	1/10W
							R9107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	D9101	8-719-970-83	DIODE	HSS82-TJ			R9108	1-218-871-11	METAL CHIP	10K		1/10W
	D9104	8-719-970-83	DIODE	HSS82-TJ			R9109	1-218-845-11	METAL CHIP	820		1/10W
	D9109	8-719-081-97	DIODE	MMDL914T1			R9114	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W
		FERRITE BEAD					R9115	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
	FB9101	1-469-578-11	FERRITE	1.1µH			R9116	1-260-328-11	CARBON	1K	5%	1/2W

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF.NO.	PART NO.	DESCRIPTION	VALUES	3			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
	R9120	1-243-624-71	METAL OXIDE	33K	5%	3W		CN9208	1-695-915-11	TAB (CONTACT)			
	R9122	1-260-320-11	CARBON	220	5%	1/2W		CN9209	1-785-879-11	CONNECTOR, ONE TO	UCH		
	R9126	1-218-903-11	METAL CHIP	220K	0.50%	1/10W		CN9210	1-695-915-11	TAB (CONTACT)			
	R9127	1-218-903-11	METAL CHIP	220K	0.50%	1/10W				,			
	R9129	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			DIODE				
	R9131	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		D9201	8-719-970-83	DIODE	HSS82-T	J	
	R9131	1-216-833-11	METAL CHIP	1.5K	5%	1/10W		D9206	8-719-970-83	DIODE	HSS82-T	l	
	R9132	1-216-809-11	METAL CHIP	100	5% 5%	1/10W		D9209	8-719-081-97	DIODE	MMDL914	IT1	
	R9133	1-216-821-11	METAL CHIP	1K	5% 5%	1/10W							
	R9135	1-260-087-11	CARBON	100	5%	1/10VV 1/2W			FERRITE BEAD				
	Kaloo	1-200-007-11	CARDON	100	370	1/200							
	R9136	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W		FB9201	1-469-578-11	FERRITE	1.1µH		
	R9130	1-218-855-11	METAL CHIP	2.2K		1/10W							
	R9147		SHORT CHIP	2.2N	0.50%	1/1000			<u>IC</u>				
	N9141	1-216-864-11	SHORT CHIP					IC9201	8-759-680-01	IC	TDA61200	Q/N2/S1	
		SPARK GAP							IACV				
	SG9101	1-518-925-31	GAP, SPARK						<u>JACK</u>				
	SG9102	1-519-422-11	GAP, SPARK				$\triangle$	J9201	1-251-182-11	SOCKET, CRT			
_	SG9103	1-519-422-11	GAP, SPARK						COIL				
								1.0004		INIDITATION	40.11		
								L9201	1-414-856-11	INDUCTOR	10µH		
	*	A-1405-079-A	CG BOARD, MOUNT	ED				L9202	1-414-855-31	INDUCTOR	1μΗ 10μΗ		
		4-382-854-11	SCREW (M3X10), P, SW	/ (+)				L9203	1-414-856-11	INDUCTOR	ιυμπ		
		CAPACITOR							NEON LAMP				
	C9201	1-107-662-11	ELECT	22µF	20%	350V	<u> </u>	NL9202	1-517-778-21	LAMP, NEON			
	C9202	1-104-570-11	CERAMIC	0.001µF	10%	2KV		NL9203	1-517-778-21	LAMP, NEON			
	C9203	1-164-156-11	CERAMIC CHIP	0.1µF	1070	25V							
	C9204	1-126-935-11	ELECT	470µF	20%	16V			<u>TRANSISTOR</u>				
	C9205	1-164-378-11	CERAMIC CHIP	30pF	5%	50V		Q9201	8-729-010-29	TRANSISTOR	MSD601-I	QCT1	
								Q9202	8-729-028-28	TRANSISTOR	2SK2036(		
	C9207	1-164-156-11	CERAMIC CHIP	0.1µF		25V		Q9203	8-729-010-05	TRANSISTOR	MSB709-F	•	
	C9208	1-164-156-11	CERAMIC CHIP	0.1µF		25V		Q9204	8-729-122-63	TRANSISTOR	2SA1226-		
	C9209	1-101-003-00	CERAMIC	0.0047µF		50V		Q0201	0 720 722 00	1100101011	20/11220		
	C9211	1-126-933-11	ELECT	100µF	20%	16V			RESISTOR				
	C9213	1-161-830-00	CERAMIC	0.0047µF		500V			1120101011				
								R9201	1-260-133-11	CARBON	680K	5%	1/2W
	C9214	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V		R9202	1-260-132-11	CARBON	560K		1/2W
	C9216	1-101-003-00	CERAMIC	0.0047µF		50V		R9203	1-249-425-11	CARBON	4.7K		1/4W
	C9217	1-164-156-11	CERAMIC CHIP	0.1µF		25V		R9204	1-216-809-11	METAL CHIP	100		1/10W
		CONNECTOR						R9205	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
		CONNECTOR						R9206	1-218-832-11	METAL CHIP	240	0.50%	1/10W
*	CN9201	1-564-510-11	PLUG, CONNECTOR	7P				R9207	1-218-849-11	METAL CHIP	1.2K	0.50%	1/10W
*	CN9202	1-564-510-11	PLUG, CONNECTOR	7P				R9208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
*	CN9203	1-564-507-11	PLUG, CONNECTOR	4P				R9209	1-218-845-11	METAL CHIP	820	0.50%	1/10W
*	CN9204	1-564-507-11	PLUG, CONNECTOR	4P				R9216	1-218-854-11	METAL CHIP	2K	0.50%	1/10W
*	CN9205	1-564-506-11	PLUG, CONNECTOR	3P									

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF.NO.	PART NO.	DESCRIPTION	VALUES	6			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
	R9217	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W		CN9308	1-785-879-11	CONNECTOR, ONE TO	UCH		
	R9220	1-243-624-71	METAL OXIDE	33K	5%	3W	*	CN9309	1-564-507-11	PLUG, CONNECTOR	4P		
	R9221	1-260-328-11	CARBON	1K	5%	1/2W		CN9310	1-695-915-11	TAB (CONTACT)			
	R9223	1-260-320-11	CARBON	220	5%	1/2W				,			
	R9225	1-218-899-11	METAL CHIP	150K		1/16W			DIODE				
										21025			
	R9226	1-218-899-11	METAL CHIP	150K	0.50%	1/16W		D9301	8-719-081-97	DIODE	MMDL914		
	R9228	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		D9302	8-719-970-83	DIODE	HSS82-TJ		
	R9230	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		D9303	8-719-081-97	DIODE	MMDL914		
	R9231	1-260-087-11	CARBON	100	5%	1/2W		D9305	6-500-029-01	DIODE	MM3Z12V		
	R9232	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W		D9309	8-719-970-83	DIODE	HSS82-TJ		
	R9233	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W			FEDRITE DE AD				
									FERRITE BEAD				
		<u>SPARK GAP</u>						FB9301	1-469-578-11	FERRITE	1.1µH		
	SG9201	1-518-925-31	GAP, SPARK						10				
	SG9202	1-519-422-11	GAP, SPARK						<u>IC</u>				
	SG9203	1-519-422-11	GAP, SPARK					IC9301	8-759-680-01	IC	TDA61200	Q/N2/S1	
	חי												
	<u>D</u>								<u>JACK</u>				
	*	A-1405-080-A	CB BOARD, MOUNT	ED			$\triangle$	J9301	1-251-182-11	SOCKET, CRT			
		4-382-854-11	SCREW (M3X10), P, SV	V (+)					0011				
		CARACITOR							COIL				
		CAPACITOR						L9301	1-414-856-11	INDUCTOR	10µH		
	C9301	1-104-570-11	CERAMIC	0.001µF	10%	2KV		L9302	1-414-855-31	INDUCTOR	1μH		
	C9302	1-101-003-00	CERAMIC	0.0047µF		50V		L9303	1-414-856-11	INDUCTOR	10µH		
	C9303	1-107-662-11	ELECT	22µF	20%	350V							
	C9304	1-162-920-11	CERAMIC CHIP	27pF	5%	50V			NEON LAMP				
	C9305	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	$\triangle$	NL9302	1-517-778-21	LAMP, NEON			
								NL9303	1-517-778-21	LAMP, NEON			
	C9306	1-164-156-11	CERAMIC CHIP	0.1µF		25V				,			
	C9307	1-126-935-11	ELECT	470µF	20%	16V			TRANSISTOR				
	C9309	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
	C9310	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V		Q9301	8-729-010-05	TRANSISTOR	MSB709-R		
	C9311	1-126-933-11	ELECT	100µF	20%	16V		Q9302	8-729-028-28	TRANSISTOR	2SK2036(		
	C0312	1 161 920 00	CERAMIC	0.0047		500V		Q9304	8-729-010-29	TRANSISTOR	MSD601-F		
	C9312 C9313	1-161-830-00	CERAMIC CHIP	0.0047µF 0.1µF		25V		Q9305	8-729-010-05	TRANSISTOR	MSB709-R		
	C9314	1-164-156-11 1-162-970-11	CERAMIC CHIP	0.1µF	10%	25V 25V		Q9306	8-729-010-05	TRANSISTOR	MSB709-R	KI I	
	C9314	1-162-966-11	CERAMIC CHIP	0.0022µF		50V		00207	8-729-010-05	TRANSISTOR	MSB709-R	)T4	
	C9316	1-102-900-11	CERAMIC	0.0022µi	10 /0	50V		Q9307 Q9309	8-729-122-63	TRANSISTOR	2SA1226-E		
	03010	1-101-000-00	OLIVAINIO	0.00+/μι		30 V		Q9309 Q9311	8-729-010-29	TRANSISTOR	MSD601-F		
	C9318	1-164-156-11	CERAMIC CHIP	0.1µF		25V		QUUIT	0 720 0 10 20	110 110101010	WODOOTT	(011	
	C9320	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V			RESISTOR				
								R9301		METAL CHIP	100	5%	1/10W
		CONNECTOR						R9302	1-216-809-11 1-216-864-11	SHORT CHIP	100	J /0	1/1000
*	CN9301	1-564-510-11	PLUG, CONNECTOR	7P				R9303	1-260-133-11	CARBON	680K	5%	1/2W
*	CN9302	1-564-510-11	PLUG, CONNECTOR	7P				R9304	1-260-132-11	CARBON	560K	5%	1/2W
*	CN9303	1-564-507-11	PLUG, CONNECTOR	4P				R9306	1-218-831-11	METAL CHIP	220	0.50%	
	CN9304	1-695-915-11	TAB (CONTACT)						. = . 0 001 11			2.2070	



REF.NO.	PART NO.	DESCRIPTION	VALU	ES			REF.NO.	PART NO.	DESCRIPTION	VALUI	ES	
R9307	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W	<u>                                   </u>	/ B #	1				
R9308	1-218-839-11	METAL CHIP	470	0.50%	1/10W	\	<u>/ [                                   </u>					
R9309	1-218-849-11	METAL CHIP	1.2K	0.50%	1/10W	$\perp$ $\sqcup$	VIVI					
R9313	1-218-877-11	METAL CHIP	18K	0.50%	1/10W			* A-1405-662-A	VM BOARD, MOUN	ITED		
R9314	1-218-862-11	METAL CHIP	4.3K	0.50%	1/10W			4-382-854-11	SCREW (M3X10), P, S	W (+)		
R9315	1-218-859-11	METAL CHIP	3.3K	0.500/	1/10W			CAPACITOR				
								CAPACITOR				
R9316	1-218-853-11	METAL CHIP	1.8K		1/10W		C9001	1-126-933-11	ELECT	100µF	20%	16V
R9317	1-218-863-11	METAL CHIP	4.7K		1/10W		C9002	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C9003	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
R9319	1-249-425-11	CARBON	4.7K	5%	1/4W		C9004	1-107-645-11	ELECT	22µF	20%	200V
							C9006	1-161-830-00	CERAMIC	0.0047µF		500V
R9320	1-243-624-71	METAL OXIDE	33K	5%	3W		00000	1 101 000 00	02.0 0000	0.00 п рг		0001
R9323	1-260-328-11	CARBON	1K	5%	1/2W		C9007	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9325	1-260-320-11	CARBON	220	5%	1/2W		C9008	1-126-964-11	ELECT	0.1μ1 10μF	20%	50V
R9327	1-218-904-11	METAL CHIP	240K	0.50%	1/10W		C9009	1-120-904-11	ELECT	10μF	20%	160V
R9328	1-218-904-11	METAL CHIP	240K	0.50%	1/10W							
							C9010	1-137-528-11	MYLAR	0.1µF	10%	250V
R9330	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		C9011	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R9332	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						400/	
R9333	1-218-854-11	METAL CHIP	2K	0.50%	1/10W		C9012	1-137-528-11	MYLAR	0.1µF	10%	250V
R9334	1-216-822-11	METAL CHIP	1.2K	5%	1/10W		C9013	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9335	1-249-393-11	CARBON	10	5%	1/4W		C9014	1-117-450-11	MYLAR	0.47µF	10%	250V
110000	1 210 000 11	O/ II LD O I I	10	070	17 144							
R9339	1-260-087-11	CARBON	100	5%	1/2W			CONNECTOR				
R9340	1-218-871-11	METAL CHIP	10K	0.50%	1/10W	*	CN9001	1-564-508-11	PLUG, CONNECTOR			5P
R9342	1-216-834-11	METAL CHIP	12K	5%	1/10W	*	CN9002	1-564-506-11	PLUG, CONNECTOR			3P
R9343	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	*	CN9003	1-770-723-11	CONNECTOR, BOARD	TO BOAR	)	8P
R9344	1-216-845-11	METAL CHIP	100K	5%	1/10W				•			
								FERRITE BEAD				
R9345	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W		ED0004	4 400 000 04	FERRITE	0.11		
R9346	1-216-833-11	METAL CHIP	10K	5%	1/10W		FB9001	1-469-869-21	FERRITE	0μΗ		
R9347	1-216-821-11	METAL CHIP	1K	5%	1/10W		FB9002	1-469-869-21	FERRITE	0μH		
R9348	1-216-821-11	METAL CHIP	1K	5%	1/10W							
R9349	1-216-809-11	METAL CHIP	100	5%	1/10W			CHIP CONDUCTO	<u>)R</u>			
							JR9001	1-216-864-11	SHORT CHIP			
R9350	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W		JR9002	1-216-864-11	SHORT CHIP			
R9351	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W							
R9352	1-216-864-11	SHORT CHIP						TRANSISTOR				
R9355	1-216-809-11	METAL CHIP	100	5%	1/10W							
R9356	1-216-809-11	METAL CHIP	100	5%	1/10W		Q9001	8-729-422-27	TRANSISTOR	2SD601A	Q	
							Q9002	8-729-422-27	TRANSISTOR	2SD601A	-Q	
	SPARK GAP						Q9003	8-729-422-27	TRANSISTOR	2SD601A	-Q	
							Q9004	8-729-424-02	TRANSISTOR	2SB709A	-QRS-T	Χ
SG9301	1-518-925-31	gap, spark					Q9005	8-729-422-27	TRANSISTOR	2SD601A	-Q	
SG9302	1-519-422-11	gap, spark										
SG9303	1-519-422-11	GAP, SPARK					Q9006	8-729-424-02	TRANSISTOR	2SB709A	-QRS-T	Χ
							Q9007	8-729-422-27	TRANSISTOR	2SD601A		
							Q9008	8-729-424-02	TRANSISTOR	2SB709A		Χ
							Q9009	8-729-422-27	TRANSISTOR	2SD601A		, ,
							Q9010	8-729-424-02	TRANSISTOR	2SB709A		X
							Q0010	JILU ILT VL		2001000	Serio I	• •
						1						



 $0.001 \mu F \quad 5\%$ 

25V

REF.NO.	PART NO.	DESCRIPTION	VALUES				REF.NO.	PART NO.	DESCRIPTION	VALUE		
Q9011	8-729-045-05	TRANSISTOR	2SA2005				00006	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
Q9012	8-729-045-04	TRANSISTOR	2SC5511				00007	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
							20008	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	RESISTOR						00009	1-164-505-11	CERAMIC CHIP	2.2µF		16V
							00010	1-126-933-11	ELECT	100µF	20%	16V
R9001	1-249-381-11	CARBON	1	5%	1/4W							
R9002	1-216-820-11	METAL CHIP	820	5%	1/10W		00011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9003	1-216-819-11	METAL CHIP	680	5%	1/10W		00012	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
R9004	1-216-834-11	METAL CHIP	12K	5%	1/10W		20013	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
R9005	1-216-839-11	METAL CHIP	33K	5%	1/10W		20014	1-126-934-11	ELECT	220µF	20%	16V
							00015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9006	1-216-811-11	METAL CHIP	150	5%	1/10W				02.00 0	V p.		
R9008	1-216-815-11	METAL CHIP	330	5%	1/10W		20016	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
R9009	1-216-813-11	METAL CHIP	220	5%	1/10W		20017	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
R9010	1-216-813-11	METAL CHIP	220	5%	1/10W		20018	1-126-933-11	ELECT	100µF	20%	16V
R9011	1-249-391-11	CARBON	6.8	5%	1/4W		00019	1-164-505-11	CERAMIC CHIP	2.2µF	2070	16V
							00020	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9012	1-249-391-11	CARBON	6.8	5%	1/4W	`	70020	1 101 100 11	OLIVIMO OIIII	υ. τμι		201
R9013	1-249-391-11	CARBON	6.8	5%	1/4W		00021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9014	1-249-391-11	CARBON	6.8	5%	1/4W		00022	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
R9015	1-249-391-11	CARBON	6.8	5%	1/4W		00023	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
R9016	1-249-391-11	CARBON	6.8	5%	1/4W		00024	1-164-156-11	CERAMIC CHIP	0.1μF	0 /0	25V
							00025	1-162-918-11	CERAMIC CHIP	18pF	5%	50V
R9017	1-249-391-11	CARBON	6.8	5%	1/4W	`	00020	1 102 310 11	OLIV WIIO OI III	торі	0 /0	00 V
R9018	1-249-391-11	CARBON	6.8	5%	1/4W		00026	1-162-918-11	CERAMIC CHIP	18pF	5%	50V
R9019	1-216-848-11	METAL CHIP	180K	5%	1/10W		00027	1-164-156-11	CERAMIC CHIP	0.1µF	0 70	25V
R9020	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		00028	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
R9021	1-216-805-11	METAL CHIP	47	5%	1/10W		00029	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	
							00030	1-115-156-11	CERAMIC CHIP	1μF	0. <u>2</u> 0pi	10V
R9022	1-216-805-11	METAL CHIP	47	5%	1/10W	`	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 110 100 11	OLI U IIII O OI III	۱۳۰		
R9023	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		00031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9024	1-216-848-11	METAL CHIP	180K					1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9025	1-215-890-11	METAL OXIDE	470	5%	2W			1-164-156-11	CERAMIC CHIP	0.1µF		25V
R9026	1-216-847-11	METAL CHIP	150K	5%	1/10W			1-164-156-11	CERAMIC CHIP	0.1μF		25V
R9027	1-216-847-11	METAL CHIP	150K	5%	1/10W			1-126-767-11	ELECT	1000µF	20%	16V
$\Lambda \Lambda \Lambda$						`	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 120 101 11		1000µ1	2070	
	<b>\</b>						20036	1-126-933-11	ELECT	100µF	20%	16V
	_							1-162-916-11	CERAMIC CHIP	12pF	5%	50V
								1-162-916-11	CERAMIC CHIP	12pF	5%	50V
	1-216-848-11   METAL CHIP   180K   5%   1/10W   1-164-1   1-215-890-11   METAL OXIDE   470   5%   2W   2W   1-215-890-11   METAL CHIP   150K   5%   1/10W   1-164-1			1-162-907-11	CERAMIC CHIP	2pF	0.25pF					
	•	•	reterrea re	pair m	etnoa.			1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
	Data is provided	for reference only.										
	* A-1302-157-A	MA BOARD, COM	PI FTF				0044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	A 1002 107 A	IIIA BOARD, COIIII					00045	1-126-933-11	ELECT	100μF	20%	16V
	CAPACITOR						20046	1-164-156-11	CERAMIC CHIP	0.1µF		25V
							00047	1-126-933-11	ELECT	100µF	20%	16V
C0001	1-164-156-11	CERAMIC CHIP	0.1µF		25V		00048	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0002	1-162-968-11	CERAMIC CHIP	0.0047µF		50V	1	•			r		
C0003	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		00049	1-128-945-31	ELECT	1000µF	20%	10V
C0004	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		00050	1-128-949-31	ELECT	470µF	20%	16V
C0005	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V		00051	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
							20052	1 115 116 11	CEDAMIC CHID	0.001	E0/	251

C0052

1-115-416-11

CERAMIC CHIP



REF.NO.	PART NO.	DESCRIPTION	VALUES	6		REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
C0308	1-126-960-11	ELECT	1µF	20%	50V	C0409	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C0309	1-126-960-11	ELECT	ι 1μF	20%	50V	C0410	1-126-933-11	ELECT	100μF	20%	16V
C0310	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C0411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0311	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C0412	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C0312	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C0413	1-126-933-11	ELECT	100µF	20%	16V
555.2		0 0 0 0	σ.σ.μ.	, ,	-0.					_0,0	
C0313	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C0414	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C0314	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V	C0415	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C0315	1-162-968-11	CERAMIC CHIP	0.0047µF		50V	C0416	1-126-935-11	ELECT	470µF	20%	16V
C0317	1-136-169-00	FILM	0.22µF	5%	50V	C0417	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0318	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C0418	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			* · — -						***  p-		
C0319	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C0419	1-126-933-11	ELECT	100μF	20%	16V
C0320	1-130-495-00	MYLAR	0.1µF	5%	50V	C0420	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0321	1-130-495-00	MYLAR	0.1µF	5%	50V	C0421	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0322	1-136-169-00	FILM	0.22µF	5%	50V	C0422	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C0323	1-162-967-11	CERAMIC CHIP	0.0033µF		50V	C0423	1-126-962-11	ELECT	3.3µF	20%	50V
C0324	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V	C0424	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C0325	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	C0425	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C0326	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	C0426	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C0327	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	C0427	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0328	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	C0428	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
			- 1								
C0329	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C0429	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0330	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C0430	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0332	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V	C0431	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0333	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C0432	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0334	1-126-960-11	ELECT	1μF	20%	50V	C0433	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
									•		
C0335	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V	C0434	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0336	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C0435	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0337	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V	C0436	1-126-933-11	ELECT	100µF	20%	16V
C0338	1-165-908-11	CERAMIC CHIP	1µF	10%	10V	C0437	1-126-963-11	ELECT	4.7µF	20%	50V
C0339	1-126-768-11	ELECT	2200µF	20%	16V	C0438	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0340	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C0439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0341	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C0440	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0342	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C0441	1-126-933-11	ELECT	100μF	20%	16V
C0343	1-126-933-11	ELECT	100µF	20%	16V	C0442	1-126-933-11	ELECT	100μF	20%	16V
C0344	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C0444	1-126-933-11	ELECT	100μF	20%	16V
C0345	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C0445	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C0400	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C0446	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0402	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C0447	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C0403	1-126-933-11	ELECT	100µF	20%	16V	C0448	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0404	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C0449	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C0405	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C0450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C0406	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C0451	1-126-933-11	ELECT	100µF	20%	16V
C0407	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C0452	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C0408	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C0453	1-126-933-11	ELECT	100µF	20%	16V
						•					



REF.NO	. PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES
C0454	1-126-963-11	ELECT	4.7µF	20%	50V				
C0461	1-165-733-31	ELECT	100µF	20%	25V		FERRITE BEAD		
C0462	1-126-933-11	ELECT	100µF	20%	16V				
C0463	1-162-970-11	CERAMIC CHIP		10%	25V	FB0001	1-216-864-11	SHORT CHIP	
C0464	1-162-970-11	CERAMIC CHIP	•	10%	25V	FB0003	1-216-864-11	SHORT CHIP	
00101	1 102 070 11	OLI U IIIII O OI III	0.0 τμι	1070	201	FB0004	1-216-864-11	SHORT CHIP	
C0465	1-126-767-11	ELECT	1000µF	20%	16V	FB0005	1-216-864-11	SHORT CHIP	
C0467	1-162-971-11	CERAMIC CHIP		10%	50V	FB0006	1-216-864-11	SHORT CHIP	
C0407	1-102-971-11	CERAINIC CHIP	υ.υυ ιμτ	1070	300				
	CONNECTOR						<u>IC</u>		
CN0001	1-793-498-11	CONNECTOR, BOAF	RD TO BOARD	50P		IC0001	6-803-615-01	IC	M306V7MG-067FP
CN0002	1-793-498-11	CONNECTOR, BOAF				IC0002	6-803-362-01	IC	M306VSMG-530FP
CN0004		PIN, CONNECTOR(P				IC0003	6-801-375-01	IC	PST9129NL
CN0007		PLUG, CONNECTOR		12P		IC0004	6-704-573-01	IC	M24C32-WMN6T(B)
CN0007		PLUG, CONNECTOR		4P		IC0005	6-704-573-01	IC	M24C32-WMN6T(B)
CINOUO	) 1-30 <del>1-</del> 30 <i>1-</i> 11	1 LOG, CONNECTOR	,	71					
CN0009	1-564-508-11	PLUG, CONNECTOR	}	5P		IC0006	8-759-641-26	IC	NJM2391DL1-33(TE1)
CN0010		PLUG, CONNECTOR		5P		IC0007	8-759-488-29	IC	TC7W66FU(TE12R)
CN0012		PLUG, CONNECTOR		6P		IC0302	6-704-236-01	IC	NJW1148
CN0012		PLUG, CONNECTOR		3P		IC0401	8-752-102-68	IC	CXA2170Q
CN0013		PIN, CONNECTOR(P		งr 11P		IC0403	8-759-642-22	IC	UPC29M05T-E2
CN040	1-704-334-11	PIN, CONNECTOR(P	CB)(V ITPE)	IIP					
CN0402	1-564-506-11	PLUG, CONNECTOR	}	3P			CHIP CONDUCT	<u>OR</u>	
CN0403	1-564-506-11	PLUG, CONNECTOR	}	3P		JR1001	1-216-864-11	SHORT CHIP	
CN0404	1-564-506-11	PLUG, CONNECTOR		3P		JR1002	1-216-864-11	SHORT CHIP	
		•				JR1002	1-216-864-11	SHORT CHIP	
	DIODE					JR1003	1-216-864-11	SHORT CHIP	
	<u></u>								
D0001	8-719-083-57	DIODE	UDZSTE-17	73.6B		JR1005	1-216-864-11	SHORT CHIP	
D0002	8-719-066-11	DIODE	1PS184-11	5		ID4000	1 010 001 11	OLIOPE OLUP	
D0003	8-719-066-11	DIODE	1PS184-11	5		JR1006	1-216-864-11	SHORT CHIP	
D0004	8-719-081-97	DIODE	MMDL914T	Γ1		JR1007	1-216-864-11	SHORT CHIP	
D0005	8-719-081-97	DIODE	MMDL914T	Γ1		JR1008	1-216-864-11	SHORT CHIP	
						JR1009	1-216-864-11	SHORT CHIP	
D0007	8-719-066-11	DIODE	1PS184-11	5		JR1010	1-216-864-11	SHORT CHIP	
D0007	8-719-081-97	DIODE	MMDL914T						
D0000	8-719-081-97	DIODE	MMDL914T			JR1011	1-216-864-11	SHORT CHIP	
D0009		DIODE	MMDL914T			JR1012	1-216-864-11	SHORT CHIP	
	8-719-081-97 9-710-091-07					JR1013	1-216-864-11	SHORT CHIP	
D0012	8-719-081-97	DIODE	MMDL914T	1		JR1014	1-216-864-11	SHORT CHIP	
D0046	0.740.004.07	DIODE	MADI 64:=	-4		JR1015	1-216-864-11	SHORT CHIP	
D0013	8-719-081-97	DIODE	MMDL914T			3.11010	. 2.0 301 11	3	
D0014	8-719-066-11	DIODE	1PS184-11			JR1016	1-216-864-11	SHORT CHIP	
D0403	8-719-081-97	DIODE	MMDL914T	Γ1			1-216-864-11	SHORT CHIP	
D0404	8-719-036-94	DIODE	RD5.6SB-T	1		JR1017			
						JR1018	1-216-864-11	SHORT CHIP	
D0405	8-719-977-28	DIODE	DTZ10B			JR1019	1-216-864-11	SHORT CHIP	
D0406	8-719-081-97	DIODE	MMDL914T	Γ1		JR1020	1-216-864-11	SHORT CHIP	
D0501	8-719-066-11	DIODE	1PS184-11			JR1021	1-216-864-11	SHORT CHIP	
D0502	8-719-977-28	DIODE	DTZ10B						
							<u>COIL</u>		
					I	L0001	1-400-397-11	INDUCTOR	10μH



REF.NO	. PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VAL	UES	
L0004	1-400-397-11	INDUCTOR	10μH	Q0405	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L0005	1-400-397-11	INDUCTOR	10μΗ	Q0406	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L0006	1-412-943-11	INDUCTOR	2.2µH	Q0407	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L0007	1-216-864-11	SHORT CHIP	•	Q0408	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L0401	1-400-397-11	INDUCTOR	10µH	Q0409	8-729-122-63	TRANSISTOR	2SA122		
			·r						
L0402	1-400-397-11	INDUCTOR	10µH	Q0410	8-729-010-05	TRANSISTOR	MSB70	9-RT1	
L0403	1-400-397-11	INDUCTOR	10μΗ	Q0411	8-729-010-05	TRANSISTOR	MSB70	9-RT1	
L0404	1-469-559-21	INDUCTOR	47μH	Q0412	8-729-010-25	TRANSISTOR	MSD60		
L0405	1-400-397-11	INDUCTOR	10µH	Q0413	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L0406	1-400-397-11	INDUCTOR	10µH	Q0414	8-729-010-25	TRANSISTOR	MSD60		
			·r						
L0407	1-400-397-11	INDUCTOR	10µH	Q0415	8-729-010-05	TRANSISTOR	MSB70	9-RT1	
L0408	1-400-397-11	INDUCTOR	10µH	Q0416	8-729-010-05	TRANSISTOR	MSB70	9-RT1	
			·r	Q0417	8-729-010-05	TRANSISTOR	MSB70		
	TRANSISTOR			Q0418	8-729-010-25	TRANSISTOR	MSD60		
				Q0419	8-729-122-63	TRANSISTOR	2SA122		
Q0001	8-729-010-25	TRANSISTOR	MSD601-RT1						
Q0002	8-729-010-25	TRANSISTOR	MSD601-RT1	Q0420	8-729-122-63	TRANSISTOR	2SA122	26-E4	
Q0003	8-729-010-25	TRANSISTOR	MSD601-RT1	Q0422	8-729-122-63	TRANSISTOR	2SA122		
Q0004	8-729-010-25	TRANSISTOR	MSD601-RT1	Q0427	8-729-028-97	TRANSISTOR		TUA-T10	6
Q0005	8-729-010-25	TRANSISTOR	MSD601-RT1	Q0428	8-729-028-97	TRANSISTOR		TUA-T10	
				Q0429	8-729-028-97	TRANSISTOR		TUA-T10	
Q0006	8-729-010-25	TRANSISTOR	MSD601-RT1						-
Q0007	8-729-010-25	TRANSISTOR	MSD601-RT1	Q0430	8-729-029-14	TRANSISTOR	DTC14	4EUA-T10	16
Q0008	8-729-010-05	TRANSISTOR	MSB709-RT1	Q0432	8-729-010-25	TRANSISTOR	MSD60		
Q0009	8-729-010-05	TRANSISTOR	MSB709-RT1	40.02	0.200.020				
Q0010	8-729-010-25	TRANSISTOR	MSD601-RT1		RESISTOR				
Q0011	8-729-010-25	TRANSISTOR	MSD601-RT1	R0001	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q0012	8-729-010-25	TRANSISTOR	MSD601-RT1	R0002	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q0013	8-729-010-25	TRANSISTOR	MSD601-RT1	R0004	1-216-809-11	METAL CHIP	100	5%	1/10W
Q0014	8-729-010-25	TRANSISTOR	MSD601-RT1	R0005	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q0015	8-729-010-25	TRANSISTOR	MSD601-RT1	R0006	1-216-809-11	METAL CHIP	100	5%	1/10W
Q0016	8-729-010-25	TRANSISTOR	MSD601-RT1	R0007	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q0017	8-729-010-05	TRANSISTOR	MSB709-RT1	R0008	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q0018	8-729-010-25	TRANSISTOR	MSD601-RT1	R0009	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q0020	8-729-010-25	TRANSISTOR	MSD601-RT1	R0010	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q0022	8-729-010-05	TRANSISTOR	MSB709-RT1	R0011	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q0025	8-729-029-14	TRANSISTOR	DTC144EUA-T106	R0012	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q0301	8-729-010-05	TRANSISTOR	MSB709-RT1	R0013	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q0302	8-729-010-25	TRANSISTOR	MSD601-RT1	R0014	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q0303	8-729-010-25	TRANSISTOR	MSD601-RT1	R0015	1-216-809-11	METAL CHIP	100	5%	1/10W
Q0304	8-729-010-25	TRANSISTOR	MSD601-RT1	R0016	1-216-809-11	METAL CHIP	100	5%	1/10W
00000	0 700 040 05	TDANGISTOD	MCD604 DT4	D0047	1 216 000 44	METAL CLUB	400	E0/	1/10\\\
Q0306	8-729-010-25	TRANSISTOR	MSD601-RT1	R0017	1-216-809-11	METAL CHIP	100	5% 5%	1/10W
Q0401	8-729-010-25 8-720-010-25	TRANSISTOR	MSD601-RT1	R0018	1-216-809-11	METAL CHIP	100 10k	5% 5%	1/10W
Q0402 Q0403	8-729-010-25 8-720-010-25	TRANSISTOR	MSD601-RT1 MSD601-RT1	R0019	1-216-833-11	METAL CHIP	10K	5% 5%	1/10W
Q0403 Q0404	8-729-010-25 8-720-010-25	TRANSISTOR		R0020	1-216-809-11	METAL CHIP	100	5% 5%	1/10W
Q0404	8-729-010-25	TRANSISTOR	MSD601-RT1	R0021	1-216-809-11	METAL CHIP	100	5%	1/10W
				I					



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
R0022	1-216-809-11	METAL CHIP	100	5%	1/10W	R0069	1-216-864-11	SHORT CHIP			
R0023	1-216-809-11	METAL CHIP	100	5%	1/10W	R0070	1-216-816-11	METAL CHIP	390	5%	1/10W
R0024	1-216-841-11	METAL CHIP	47K	5%	1/10W	R0071	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0072	1-216-809-11	METAL CHIP	100	5%	1/10W
R0026	1-216-809-11	METAL CHIP	100	5%	1/10W	R0073	1-216-809-11	METAL CHIP	100	5%	1/10W
R0027	1-216-821-11	METAL CHIP	1K	5%	1/10W	R0074	1-216-809-11	METAL CHIP	100	5%	1/10W
R0028	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0075	1-216-809-11	METAL CHIP	100	5%	1/10W
R0029	1-216-809-11	METAL CHIP	100	5%	1/10W	R0076	1-216-864-11	SHORT CHIP			
R0030	1-216-813-11	METAL CHIP	220	5%	1/10W	R0077	1-216-837-11	METAL CHIP	22K	5%	1/10W
R0031	1-216-809-11	METAL CHIP	100	5%	1/10W	R0078	1-216-816-11	METAL CHIP	390	5%	1/10W
110001	1 210 000 11	ME IAE OTH	100	070	171011	110070	121001011	ME IAE OTH	000	070	17 1011
R0032	1-216-809-11	METAL CHIP	100	5%	1/10W	R0079	1-216-839-11	METAL CHIP	33K	5%	1/10W
R0034	1-216-809-11	METAL CHIP	100	5%	1/10W	R0080	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0035	1-216-817-11	METAL CHIP	470	5%	1/10W	R0081	1-216-841-11	METAL CHIP	47K	5%	1/10W
R0036	1-216-797-11	METAL CHIP	10	5%	1/10W	R0082	1-216-841-11	METAL CHIP	47K	5%	1/10W
R0039	1-216-809-11	METAL CHIP	100	5%	1/10W	R0083	1-216-833-11	METAL CHIP	10K	5%	1/10W
K0039	1-210-009-11	METAL CHIP	100	370	1/1000	K0003	1-210-033-11	WE TAL CHIP	IUN	370	1/1000
D0040	1 216 000 11	METAL CHID	100	5%	1/10W	DOOGA	1 216 021 11	METAL CHID	1K	5%	1/10W
R0040	1-216-809-11	METAL CHIP				R0084	1-216-821-11	METAL CHIP			
R0041	1-216-809-11	METAL CHIP	100	5%	1/10W	R0085	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R0042	1-216-820-11	METAL CHIP	820	5%	1/10W	R0086	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0044	1-216-797-11	METAL CHIP	10	5%	1/10W	R0087	1-216-839-11	METAL CHIP	33K	5%	1/10W
R0045	1-216-809-11	METAL CHIP	100	5%	1/10W	R0088	1-216-833-11	METAL CHIP	10K	5%	1/10W
D0040	1 0 1 0 0 0 0 1 1	METAL OLUB	400	=0/	4/40044	D	4 040 000 44	METAL OLUB	4014	=0/	4/40044
R0046	1-216-809-11	METAL CHIP	100	5%	1/10W	R0089	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0047	1-216-809-11	METAL CHIP	100	5%	1/10W	R0091	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0048	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0092	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0049	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0093	1-216-837-11	METAL CHIP	22K	5%	1/10W
R0050	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0094	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0051	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0095	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0052	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0053	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0097	1-211-990-11	METAL CHIP	75		1/10W
R0054	1-216-845-11	METAL CHIP	100K	5%	1/10W	R0098	1-216-809-11	METAL CHIP	100	5%	1/10W
R0055	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0099	1-216-809-11	METAL CHIP	100	5%	1/10W
R0056	1-216-841-11	METAL CHIP	47K	5%	1/10W	R0100	1-216-809-11	METAL CHIP	100	5%	1/10W
R0057	1-216-809-11	METAL CHIP	100	5%	1/10W	R0101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0058	1-216-809-11	METAL CHIP	100	5%	1/10W	R0102	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0059	1-216-809-11	METAL CHIP	100	5%	1/10W	R0103	1-216-809-11	METAL CHIP	100	5%	1/10W
R0060	1-216-805-11	METAL CHIP	47	5%	1/10W	R0104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0061	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0062	1-216-805-11	METAL CHIP	47	5%	1/10W	R0107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R0063	1-216-821-11	METAL CHIP	1K	5%	1/10W	R0109	1-216-841-11	METAL CHIP	47K	5%	1/10W
R0064	1-216-864-11	SHORT CHIP				R0110	1-216-817-11	METAL CHIP	470	5%	1/10W
R0065	1-216-816-11	METAL CHIP	390	5%	1/10W	R0111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						1					
R0066	1-216-841-11	METAL CHIP	47K	5%	1/10W	R0112	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R0067	1-216-809-11	METAL CHIP	100	5%	1/10W	R0113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0068	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0114	1-216-817-11	METAL CHIP	470	5%	1/10W
			•	- / •		R0115	1-216-809-11	METAL CHIP	100	5%	1/10W
									100	3,0	



REF.NO.	PART NO.	DESCRIPTION	VALU	ES			REF.NO.	PART NO.	DESCRIPTION	VALU	IES	
R0116	1-216-809-11	METAL CHIP	100	5%	1/10W		R0327	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0118	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0328	1-218-873-11	METAL CHIP	12K	0.50%	
R0119	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R0329	1-218-871-11	METAL CHIP	10K	0.50%	
R0120	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R0330	1-218-873-11	METAL CHIP	12K	0.50%	
R0121	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0331	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0122	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0334	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R0123	1-216-841-11	METAL CHIP	47K	5%	1/10W		R0335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R0124	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0336	1-216-864-11	SHORT CHIP		0,10	
R0125	1-216-809-11	METAL CHIP	100	5%	1/10W		R0338	1-216-864-11	SHORT CHIP			
		0		• 70								
R0126	1-216-809-11	METAL CHIP	100	5%	1/10W		R0340	1-216-864-11	SHORT CHIP			
R0129	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0350	1-216-864-11	SHORT CHIP			
R0131	1-216-809-11	METAL CHIP	100	5%	1/10W		R0359	1-216-864-11	SHORT CHIP			
R0132	1-216-809-11	METAL CHIP	100	5%	1/10W		R0360	1-216-864-11	SHORT CHIP			
R0133	1-216-809-11	METAL CHIP	100	5%	1/10W		R0401	1-216-809-11	METAL CHIP	100	5%	1/10W
110100	1210 000 11	ME I/ LE OI III	100	0 /0	171011		110101	1210 000 11	ME IAE OI III	100	070	171011
R0134	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0402	1-216-809-11	METAL CHIP	100	5%	1/10W
R0135	1-216-809-11	METAL CHIP	100	5%	1/10W		R0403	1-216-809-11	METAL CHIP	100	5%	1/10W
R0136	1-216-809-11	METAL CHIP	100	5%	1/10W		R0406	1-216-815-11	METAL CHIP	330	5%	1/10W
R0137	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0407	1-216-809-11	METAL CHIP	100	5%	1/10W
R0138	1-216-809-11	METAL CHIP	100	5%	1/10W		R0410	1-218-871-11	METAL CHIP	10K	0.50%	
110100	1 210 000 11	WE IT LE OT III	100	0 /0	171000		110+10	1210 071 11	WE IT LE OT III	1010	0.0070	171011
R0139	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R0411	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R0140	1-216-809-11	METAL CHIP	100	5%	1/10W		R0412	1-218-871-11	METAL CHIP	10K	0.50%	
R0143	1-216-809-11	METAL CHIP	100	5%	1/10W		R0413	1-216-841-11	METAL CHIP	47K	5%	1/10W
R0144	1-216-809-11	METAL CHIP	100	5%	1/10W		R0414	1-216-841-11	METAL CHIP	47K	5%	1/10W
R0145	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0416	1-216-809-11	METAL CHIP	100	5%	1/10W
110170	1 210 000 11	WE IT LE OT III	1010	0 /0	171000		110+10	1 210 000 11	WE IT LE OT III	100	070	171011
R0148	1-216-809-11	METAL CHIP	100	5%	1/10W		R0417	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R0149	1-216-809-11	METAL CHIP	100	5%	1/10W		R0418	1-216-845-11	METAL CHIP	100K	5%	1/10W
R0150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R0421	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R0153	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R0422	1-216-809-11	METAL CHIP	100	5%	1/10W
R0307	1-216-821-11	METAL CHIP	1K	5%	1/10W		R0423	1-216-853-11	METAL CHIP	470K	5%	1/10W
110001	1 210 021 11	ME IAE OI III	111	0 /0	171011		110120	1210 000 11	ME IAE OI III	17010	070	171011
R0308	1-216-841-11	METAL CHIP	47K	5%	1/10W		R0424	1-216-809-11	METAL CHIP	100	5%	1/10W
R0309	1-216-821-11	METAL CHIP	1K	5%	1/10W		R0425	1-216-809-11	METAL CHIP	100	5%	1/10W
R0310	1-216-821-11	METAL CHIP	1K	5%	1/10W		R0426	1-216-809-11	METAL CHIP	100	5%	1/10W
R0311	1-216-809-11	METAL CHIP	100	5%	1/10W		R0427	1-216-809-11	METAL CHIP	100	5%	1/10W
R0312	1-216-853-11	METAL CHIP	470K	5%	1/10W		R0428	1-216-818-11	METAL CHIP	560	5%	1/10W
110012	1210 000 11	ME II LE OI III	17010	070			110120	121001011	ME I/ IE O/ III	000	070	., 1011
R0313	1-216-809-11	METAL CHIP	100	5%	1/10W		R0430	1-216-864-11	SHORT CHIP			
R0314	1-216-853-11	METAL CHIP	470K	5%	1/10W		R0431	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0315	1-216-821-11	METAL CHIP	1K	5%	1/10W		R0432	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0316	1-216-821-11	METAL CHIP	1K	5%	1/10W		R0433	1-216-809-11	METAL CHIP	100	5%	1/10W
R0318	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0434	1-216-809-11	METAL CHIP	100	5%	1/10W
110010		0		• 70							0,10	
R0320	1-216-809-11	METAL CHIP	100	5%	1/10W	1	R0435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0322	1-216-833-11	METAL CHIP	10K	5%	1/10W		R0436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0324	1-216-809-11	METAL CHIP	100	5%	1/10W	1	R0437	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R0325	1-216-853-11	METAL CHIP	470K	5%	1/10W		R0438	1-216-809-11	METAL CHIP	100	5%	1/10W
R0326	1-216-853-11	METAL CHIP	470K	5%	1/10W		R0439	1-216-821-11	METAL CHIP	1K	5%	1/10W
	. = .0 000 11			- /0		1			•		2,0	



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R0441	1-216-809-11	METAL CHIP	100	5%	1/10W	R0497	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0442	1-216-834-11	METAL CHIP	12K	5%	1/10W	R0498	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0443	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W	R0499	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0444	1-216-809-11	METAL CHIP	100	5%	1/10W	R0500	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0445	1-216-809-11	METAL CHIP	100	5%	1/10W	R0501	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0446	1-216-809-11	METAL CHIP	100	5%	1/10W	R0502	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0447	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0503	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0448	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0504	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0449	1-216-809-11	METAL CHIP	100	5%	1/10W	R0505	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
110443	1-210-003-11	WE TAL OTH	100	370	1/1044	1,0000	1-210-020-11	WE TAE OTTI	2.211	J /0	17 10 00
R0451	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R0506	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0453	1-216-863-11	METAL CHIP	3.3M	5%	1/10W	R0507	1-216-809-11	METAL CHIP	100	5%	1/10W
R0456	1-216-809-11	METAL CHIP	100	5%	1/10W	R0517	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R0457	1-216-809-11	METAL CHIP	100	5%	1/10W	R0518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0458	1-216-809-11	METAL CHIP	100	5%	1/10W	R0522	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0459	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R0523	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0460	1-216-815-11	METAL CHIP	330	5%	1/10W	R0524	1-216-864-11	SHORT CHIP			
R0462	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0551	1-216-804-11	METAL CHIP	39	5%	1/10W
R0463	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0552	1-216-804-11	METAL CHIP	39	5%	1/10W
R0464	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0553	1-216-804-11	METAL CHIP	39	5%	1/10W
D0466	4 040 005 44	METAL CUID	0.01/	E0/	4/40\4/	DOFFE	4 040 000 44	METAL CLUD	00	E0/	4/40\4/
R0466	1-216-825-11	METAL CHIP	2.2K	5% 5%	1/10W	R0555	1-216-803-11	METAL CHIP	33	5%	1/10W
R0468	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0556	1-216-803-11	METAL CHIP	33	5%	1/10W
R0469	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0557	1-216-803-11	METAL CHIP	33	5%	1/10W
R0470	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R0559	1-216-813-11	METAL CHIP	220	5%	1/10W
R0471	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0560	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0472	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0561	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0473	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0562	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R0474	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R0563	1-216-805-11	METAL CHIP	47	5%	1/10W
R0475	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R0477	1-216-815-11	METAL CHIP	330	5%	1/10W		CRYSTAL				
R0478	1-218-871-11	METAL CHIP	10K	0.50%	1/10W	X0001	1-767-686-21	VIBRATOR, CRYSTAL			
R0479	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	X0002	1-781-589-21	VIBRATOR, CRYSTAL			
R0480	1-216-809-11	METAL CHIP	100	5%	1/10W	X0401	1-760-895-21	VIBRATOR, CERAMIC			
R0481	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R0482	1-216-833-11	METAL CHIP	10K	5%	1/10W	A					
						,	* A-1302-158-A	A BOARD, COMPLE	TF		
R0484	1-216-809-11	METAL CHIP	100	5%	1/10W		4-382-854-01	SCREW (M3X8), P, SW			
R0485	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		4-382-854-11	SCREW (M3X10), P, SV			
R0486	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		1 002 001 11	CONETT (MOXTO), 1, CT	(')		
R0488	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		CAPACITOR				
R0489	1-218-875-11	METAL CHIP	15K	0.50%	1/10W	00000		E	4 5	=0/	<b>50</b> ) /
R0490	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C2000 C2001	1-136-177-00 1-162-964-11	FILM CERAMIC CHIP	1μF 0.001μF	5% 10%	50V 50V
R0492	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C2001	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
R0493	1-216-864-11	SHORT CHIP	<b>_</b> .	- / •		C2002	1-164-161-11	CERAMIC CHIP	0.001µl 0.0022µF		50V
R0494	1-216-864-11	SHORT CHIP				C2005	1-104-101-11	CERAMIC CHIP	0.0022μΓ 1000pF	5%	1000V
R0496	1-216-809-11	METAL CHIP	100	5%	1/10W	32000	1 100 100-01	CEI V WIIO OI III	ισσορι	U /U	1000 V
		71111	. 30	- /0		1					



REF.NO.	PART NO.	DESCRIPTION	VALUES	3		REF.	NO.	PART NO.	DESCRIPTION	VALUE	S	
C2007	1-137-194-81	FILM	0.47µF	5%	50V	C206	4	1-126-041-11	ELECT	2200µF	20%	35V
C2008	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	C206		1-126-041-11	ELECT	2200µF	20%	35V
C2011	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C206		1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2013	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C206		1-100-158-91	CERAMIC CHIP	1000pF	5%	100V
C2014	1-109-953-11	ELECT	2.2µF	20%	50V	C207		1-162-966-11	CERAMIC CHIP	0.0022µF		50V
02011				_0,,	•••	C207		1-162-966-11	CERAMIC CHIP	0.0022µF		50V
C2015	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	-	_		02.00	٠.٠٠٠.	, .	
C2016	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C207	5	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2018	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C207		1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2019	1-126-964-11	ELECT	10μF	20%	50V	C207		1-125-837-91	CERAMIC CHIP	.μ. 1μF	10%	6.3V
C2020	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C207		1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
02020		02.00 0	0.00.	. 6 7 6	•••	C207		1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2021	1-162-959-11	CERAMIC CHIP	330pF	5%	50V	0207	•	1 101 200 11	021 ti iiii 0 01 iii	220p.	070	001
C2022	1-164-156-11	CERAMIC CHIP	0.1µF	0 70	25V	C208	0	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2023	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C208		1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2024	1-107-704-51	ELECT	470µF	20%	25V	C208		1-126-933-11	ELECT	100μF	20%	16V
C2025	1-137-194-81	FILM	0.47μF	5%	50V	C208		1-126-947-11	ELECT	47μF	20%	35V
02020	1 101 101 01	I ILM	υ. π μι	0 70	001	C208		1-216-864-11	SHORT CHIP	., μ.	2070	001
C2027	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	0200		1 210 001 11	OHORR OHII			
C2028	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C208	5	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2029	1-126-933-11	ELECT	100μF	20%	16V	C208		1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2030	1-126-933-11	ELECT	100μF	20%	16V	C208		1-126-967-11	ELECT	47µF	20%	50V
C2031	1-162-959-11	CERAMIC CHIP	330pF	5%	50V	C209		1-162-962-11	CERAMIC CHIP	470pF	10%	50V
02001	1-102-333-11	OLIVAINIO OFIII	ооорі	J /0	30 V	C209		1-102-302-11	ELECT	47 ορί 10μF	20%	50V
C2033	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	0203		1-120-304-11	LLLOT	ισμι	2070	30 V
C2034	1-164-156-11	CERAMIC CHIP	0.0022μ1 0.1μF	10 /0	25V	C209	2	1-126-933-11	ELECT	100µF	20%	16V
C2035	1-125-837-91	CERAMIC CHIP	0.1μF	10%	6.3V	C209		1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2036	1-126-933-11	ELECT	100µF	20%	16V	C209		1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2038	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C209		1-136-177-00	FILM	1μF	5%	50V
02000	1 102 304 11	OLIV WIIO OTIII	0.001μ1	1070	00 V	C210		1-136-177-00	FILM	1μF	5%	50V
C2039	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	0210	U	1 100 117 00	I ILIVI	·μ·	0 /0	00 V
C2040	1-126-964-11	ELECT	10μF	20%	50V	⚠ C600	1	1-165-530-31	MYLAR	0.47µF	10	0V
C2041	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	⚠ C600		1-119-894-51	CERAMIC	2200pF	20%	250V
C2042	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	<u>↑</u> C600		1-165-530-31	MYLAR	0.47µF	10	0V
C2043	1-100-158-91	CERAMIC CHIP	1000pF	5%	100V	<u> </u>		1-119-894-51	CERAMIC	2200pF	20%	250V
02010	1 100 100 01	OLIV WIIO OI III	ТОООРГ	0 70	1001	C600		1-161-964-91	CERAMIC	0.0047µF	2070	250V
C2044	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V				0210 11110	0.0017 μ1		2001
C2047	1-136-177-00	FILM	1μF	5%	50V	C600	8	1-161-964-91	CERAMIC	0.0047µF		250V
C2048	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C601		1-137-750-11	ELECT	1500μF	20%	250V
C2049	1-126-066-11	ELECT	470μF	20%	63V	C601		1-137-750-11	ELECT	1500µF	20%	250V
C2050	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	C611		1-126-964-11	ELECT	10μF	20%	50V
02000	1 101 011 11	OLIV WIIO OI III	υ.υυυμι	1070	101	C611		1-164-156-11	CERAMIC CHIP	0.1μF	2070	25V
C2053	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	0011	•	1 101 100 11	OLIV WIIO OI III	υ. τμι		201
C2054	1-100-158-91	CERAMIC CHIP	1000pF	5%	100V	C6112	2	1-126-965-91	ELECT	22µF	20%	50V
C2055	1-126-933-11	ELECT	1000pi	20%	16V	C611		1-126-943-11	ELECT	2200μF	20%	25V
C2056	1-126-935-11	ELECT	470μF	20%	16V	C611		1-128-562-11	ELECT	2200μ1 47μF	20%	100V
C2057	1-164-156-11	CERAMIC CHIP	0.1μF	25V	101	C6118		1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
02001	7 101 100 11	JEI G WIII OI III	υ. ιμι	201		C6119		1-102-370-11	ELECT	0.01μΓ 1μF	20%	50V
C2058	1-126-964-11	ELECT	10µF	20%	50V		•	1 120 000-11	LLLOI	ıμı	20 /0	00 V
C2061	1-162-966-11	CERAMIC CHIP	0.0022µF		50V 50V	C612	n	1-126-968-11	ELECT	100µF	20%	50V
C2062	1-102-900-11	CERAMIC CHIP	0.0022μΓ 0.1μF	10%	50V 50V	C612		1-120-900-11	CERAMIC CHIP	0.0022µF		50V
C2062	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V 50V	C612		1-162-966-11	CERAMIC CHIP	0.0022μF		50V
02000	7 110 000-11	JEIV WIIO OI III	υ. τμι	10/0	00 V	0012	•	1 102 000-11	OLI V WIIO OI III	υ.υυΖΖμί	10 /0	00 V



	REF.NO.	PART NO.	DESCRIPTION	VALUES	3			REF.NO.	PART NO.	DESCRIPTION	VALUES
	C6127	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V		CN6013	1-695-915-11	TAB (CONTACT)	
	C6200	1-128-954-11	ELECT	1000µF	20%	25V	*	CN6015	1-564-506-11	PLUG, CONNECTOR	3P
	C6201	1-128-954-11	ELECT	1000µF	20%	25V				,	
	C6202	1-128-954-11	ELECT	1000µF	20%	25V			DIODE		
	C6203	1-164-156-11	CERAMIC CHIP	0.1µF		25V					
				•				D2001	6-500-028-01	DIODE	MM3Z9V1ST1
	C6204	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6000	8-719-081-97	DIODE	MMDL914T1
	C6205	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6005	8-719-022-99	DIODE	D6SB60L
	C6212	1-128-950-31	ELECT	1000µF	20%	16V		D6006	8-719-083-78	DIODE	10ERA60-TP
	C6213	1-128-945-31	ELECT	1000µF	20%	10V		D6007	8-719-083-78	DIODE	10ERA60-TP
	C6214	1-128-942-31	ELECT	1000µF	20%	6.3V					
								D6108	8-719-056-93	DIODE	UDZ-TE-17-18B
	C6215	1-126-935-11	ELECT	470µF	20%	16V		D6109	8-719-510-02	DIODE	D1NS4
	C6216	1-126-926-11	ELECT	1000µF	20%	10V		D6113	6-500-582-01	DIODE	KBP153G-A2
	C6217	1-126-916-11	ELECT	1000µF	20%	6.3V		D6114	6-500-567-21	DIODE	10ERB20-TB5
	C6220	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		D6115	8-719-081-97	DIODE	MMDL914T1
	C6222	1-163-038-91	CERAMIC CHIP	0.1µF		25V					
				p				D6116	8-719-081-97	DIODE	MMDL914T1
	C6225	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6117	8-719-081-97	DIODE	MMDL914T1
	C6227	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6118	6-500-555-01	DIODE	MM3Z27VT1
	C6230	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6119	8-719-081-97	DIODE	MMDL914T1
	C6234	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D6120	8-719-081-97	DIODE	MMDL914T1
	C6237	1-126-939-11	ELECT		20%	16V					
	00201	1 120 000 11		тосоорі	2070	101		D6121	8-719-081-97	DIODE	MMDL914T1
	C6240	1-126-926-11	ELECT	1000µF	20%	10V		D6122	8-719-081-97	DIODE	MMDL914T1
	C6242	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		D6123	8-719-081-97	DIODE	MMDL914T1
	C6246	1-126-941-11	ELECT	470µF	20%	25V		D6200	8-719-078-04	DIODE	EC31QS03L-TE12L
	C6247	1-164-156-11	CERAMIC CHIP	0.1µF	2070	25V					
	00211	1 101 100 11	or a mile or m	υμ.		201		D6201	8-719-078-04	DIODE	EC31QS03L-TE12L
		CONNECTOR						D6202	8-719-078-04	DIODE	EC31QS03L-TE12L
		<u> </u>						D6203	8-719-036-94	DIODE	RD5.6SB-T1
*	CN2001	1-564-509-11	PLUG, CONNECTOR		6P			D6204	8-719-081-97	DIODE	MMDL914T1
*	CN2003	1-793-495-11	CONNECTOR, BOARD 1					D6205	8-719-056-83	DIODE	UDZ-TE-17-6.8B
*	CN2004	1-793-495-11	CONNECTOR, BOARD 1								
*	CN2005	1-793-495-11	CONNECTOR, BOARD 1					D6206	8-719-081-97	DIODE	MMDL914T1
*	CN2006	1-779-892-11	CONNECTOR, BOARD 1	TO BOARD	10P			D6207	8-719-977-28	DIODE	DTZ10B
								D6208	8-719-081-97	DIODE	MMDL914T1
*	CN2007	1-779-892-11	CONNECTOR, BOARD 1					D6209	8-719-977-28	DIODE	DTZ10B
*	CN2011	1-779-892-11	CONNECTOR, BOARD 1					D6210	6-500-527-01	DIODE	EC21QS04-TE12L
*	CN2012	1-779-892-11	CONNECTOR, BOARD 1	TO BOARD	10P						
*	CN2014	1-564-506-11	PLUG, CONNECTOR		3P			D6211	8-719-036-94	DIODE	RD5.6SB-T1
*	CN2015	1-793-495-11	CONNECTOR, BOARD 1	TO BOARD	50P			D6212	8-719-081-97	DIODE	MMDL914T1
								D6214	8-719-063-70	DIODE	D1NL20U
*	CN2016	1-564-506-11	PLUG, CONNECTOR		3P			D6215	6-500-654-01	DIODE	MM3Z3V0T1
*	CN2017	1-564-509-11	PLUG, CONNECTOR		6P						
	CN2019	1-695-915-11	TAB (CONTACT)						<u>FUSE</u>		
*	CN6000	1-580-843-11	PIN, CONNECTOR (POV	VER)			<u>^</u>	E6000	1 576 750 11	FLICE LINIZO /TIME LA	O TVDE\
*	CN6001	1-580-843-11	PIN, CONNECTOR (POV	VER)			<u> </u>	F6000	1-576-753-11	FUSE-LINKS (TIME-LA	GITPE)
	CN6002	1-695-915-11	TAB (CONTACT)						FERRITE BEAD		
	CN6003	1-695-915-11	TAB (CONTACT)					FB2000	1-469-578-11	FERRITE	1.1µH
	CN6004	1-695-915-11	TAB (CONTACT)					FB2001	1-469-578-11	FERRITE	1.1μΠ 1.1μΗ
*	CN6012	1-580-843-11	PIN, CONNECTOR (POV	VER)				1 04001	1-100-010-11	LIMIL	ι.τμιτ
×	CN6012	1-580-843-11	PIN, CONNECTOR (POV	VEK)			l				



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
FB2004	1-469-578-11	FERRITE	1.1µH	JR34	1-216-864-11	SHORT CHIP	
FB2005	1-469-578-11	FERRITE	1.1µH	JR35	1-216-864-11	SHORT CHIP	
FB6200	1-412-911-11	FERRITE	0μH	JR36	1-216-864-11	SHORT CHIP	
FB6201	1-412-911-11	FERRITE	0μH	JR37	1-216-864-11	SHORT CHIP	
FB6202	1-412-911-11	FERRITE	0μH	JR38	1-216-864-11	SHORT CHIP	
1 00202	1 714-011-11	LIMITE	<b>υμ</b> ιι	31100	1 2 10-00 <del>1-</del> 11	OHORT OHI	
	FUSE HOLDER			JR39	1-216-864-11	SHORT CHIP	
				JR40	1-216-864-11	SHORT CHIP	
FH6000	1-533-223-11	FUSE HOLDER	0A 0V			SHORT CHIP	
FH6001	1-533-223-11	FUSE HOLDER	0A 0V	JR41	1-216-864-11		
				JR42	1-216-864-11	SHORT CHIP	
	<u>IC</u>			JR43	1-216-864-11	SHORT CHIP	
IC2000	6-704-233-01	IC	TDA7490	JR44	1-216-864-11	SHORT CHIP	
				JR45	1-216-864-11	SHORT CHIP	
IC6100	6-704-655-01	IC	NJU7223F50	JR46	1-216-864-11	SHORT CHIP	
IC6200	6-703-656-01	IC	SI-8090S				
IC6201	8-759-474-09	IC	SI-8050S-LF1101	JR47	1-216-864-11	SHORT CHIP	
IC6202	8-759-659-28	IC	SI-8033S	JR48	1-216-864-11	SHORT CHIP	
IC6203	6-700-813-01	IC	SI-8033JF		4.040.00	011057 01117	
				JR49	1-216-864-11	SHORT CHIP	
	CHIP CONDUCT	<u>ror</u>		JR50	1-216-864-11	SHORT CHIP	
IF 1		011057 0117		JR51	1-216-864-11	SHORT CHIP	
JR1	1-216-295-91	SHORT CHIP		JR52	1-216-864-11	SHORT CHIP	
JR2	1-216-295-91	SHORT CHIP		JR53	1-216-864-11	SHORT CHIP	
JR3	1-216-295-91	SHORT CHIP					
JR4	1-216-295-91	SHORT CHIP		JR54	1-216-864-11	SHORT CHIP	
JR5	1-216-295-91	SHORT CHIP		JR55	1-216-864-11	SHORT CHIP	
				JR2003	1-216-864-11	SHORT CHIP	
JR6	1-216-295-91	SHORT CHIP		JR6200	1-216-864-11	SHORT CHIP	
JR7	1-216-295-91	SHORT CHIP		JR6201	1-216-864-11	SHORT CHIP	
JR8	1-216-295-91	SHORT CHIP		3110201	1-210-004-11	OHOINI OHII	
JR9	1-216-295-91	SHORT CHIP		IDeana	1 216 064 11	CHODT CHID	
JR10	1-216-295-91	SHORT CHIP		JR6202	1-216-864-11	SHORT CHIP	
01110	1-210-230-31	OHORT OHII		JR6204	1-216-864-11	SHORT CHIP	
ID44	1 216 205 01	CHODT CHID		JR6206	1-216-295-91	SHORT CHIP	
JR11	1-216-295-91	SHORT CHIP		JR6207	1-216-864-11	SHORT CHIP	
JR13	1-216-295-91	SHORT CHIP		JR6209	1-216-864-11	SHORT CHIP	
JR14	1-216-295-91	SHORT CHIP					
JR15	1-216-295-91	SHORT CHIP		JR6211	1-216-864-11	SHORT CHIP	
JR16	1-216-295-91	SHORT CHIP		JR6213	1-216-864-11	SHORT CHIP	
				JR6507	1-216-864-11	SHORT CHIP	
JR17	1-216-295-91	SHORT CHIP					
JR18	1-216-864-11	SHORT CHIP			COIL		
JR19	1-216-864-11	SHORT CHIP					
JR20	1-216-295-91	SHORT CHIP		L2000	1-456-551-11	INDUCTOR	0μΗ
JR21	1-216-295-91	SHORT CHIP		L2001	1-456-552-11	INDUCTOR	0μΗ
				L2002	1-456-552-11	INDUCTOR	0μΗ
JR22	1-216-864-11	SHORT CHIP		L2003	1-469-320-21	INDUCTOR	100µH
JR30	1-216-864-11	SHORT CHIP		L2004	1-469-320-21	INDUCTOR	100µH
JR31	1-216-864-11	SHORT CHIP					•
JR32				L2005	1-456-551-11	INDUCTOR	0μΗ
	1-216-864-11	SHORT CHIP		L2006	1-469-317-21	INDUCTOR	10μH
JR33	1-216-864-11	SHORT CHIP		L2008	1-414-856-11	INDUCTOR	10μH
							•
				L2009	1-414-856-11	INDUCTOR	10µH
				L2010	1-414-856-11	INDUCTOR	10µH



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALU	IES	
L2011	1-414-856-11	INDUCTOR	10µH		RESISTOR				
∆ L6000	1-437-479-11	TRANSFORMER, LIN	IE FILTER	D0000	4 040 055 44	METAL CUID	0001/	<b>F</b> 0/	4/4014/
∠ L6001	1-437-479-11	TRANSFORMER, LIN	IE FILTER	R2000	1-216-855-11	METAL CHIP	680K	5%	1/10W
L6002	1-406-977-21	INDUCTOR	100µH	R2001	1-216-864-11	SHORT CHIP			
L6203	1-412-525-31	INDUCTOR	10μΗ	R2002	1-216-833-11	METAL CHIP	10K	5%	1/10W
			•	R2006	1-216-833-11	METAL CHIP	10K	5%	1/10W
L6204	1-412-525-31	INDUCTOR	10μH	R2007	1-216-839-11	METAL CHIP	33K	5%	1/10W
L6205	1-412-537-31	INDUCTOR	100µH						
L6206	1-456-414-11	COIL, CHOPPER		R2008	1-216-839-11	METAL CHIP	33K	5%	1/10W
L6207	1-456-414-11	COIL, CHOPPER		R2009	1-216-819-11	METAL CHIP	680	5%	1/10W
L6208	1-456-414-11	COIL, CHOPPER		R2010	1-216-819-11	METAL CHIP	680	5%	1/10W
20200	1 100 111 11	OOIL, OHOH I LIK		R2014	1-216-841-11	METAL CHIP	47K	5%	1/10W
L6209	1-412-525-31	INDUCTOR	10µH	R2015	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
L6210	1-412-525-31	INDUCTOR	10μH						
L6211	1-412-525-31	INDUCTOR	10μH	R2018	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L6212	1-412-537-31	INDUCTOR	100μH	R2019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
			ισομιι	R2020	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
L6213	1-456-214-11	COIL, CHOPPER	40	R2021	1-216-846-11	METAL CHIP	120K	5%	1/10W
L6215	1-412-525-31	INDUCTOR	10μH	R2023	1-216-846-11	METAL CHIP	120K	5%	1/10W
	10 1 10114								
	<u>IC LINK</u>			R2024	1-216-817-11	METAL CHIP	470	5%	1/10W
PS2000	1-576-390-91	IC LINK	2.5A 50V	R2025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
PS2001	1-576-390-91	IC LINK	2.5A 50V	R2026	1-216-809-11	METAL CHIP	100	5%	1/10W
. 0200				R2027	1-216-843-11	METAL CHIP	68K	5%	1/10W
	TRANSISTOR			R2028	1-218-879-11	METAL CHIP	22K		1/10W
	110 410101011			112020	121001011	III II IE OI III		0.0070	
Q2000	8-729-010-05	TRANSISTOR	MSB709-RT1	R2029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q2001	8-729-010-25	TRANSISTOR	MSD601-RT1	R2030	1-216-835-11	METAL CHIP	15K	5%	1/10W
Q2005	8-729-010-25	TRANSISTOR	MSD601-RT1	R2032	1-218-879-11	METAL CHIP	22K		1/10W
Q2006	8-729-010-25	TRANSISTOR	MSD601-RT1	R2033	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q2007	8-729-010-05	TRANSISTOR	MSB709-RT1	R2034	1-216-833-11	METAL CHIP	10K	5% 5%	1/10W
				R2034	1-210-033-11	WE TAL CHIP	IUN	370	1/1000
Q2008	8-729-010-05	TRANSISTOR	MSB709-RT1	Dagge	4 040 040 44	METAL CLUD	COL	E0/	4/40\4/
Q2009	8-729-010-25	TRANSISTOR	MSD601-RT1	R2036	1-216-843-11	METAL CHIP	68K	5%	1/10W
Q2010	8-729-010-05	TRANSISTOR	MSB709-RT1	R2037	1-216-846-11	METAL CHIP	120K	5%	1/10W
Q2011	8-729-010-25	TRANSISTOR	MSD601-RT1	R2038	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q2012	8-729-010-05	TRANSISTOR	MSB709-RT1	R2039	1-216-833-11	METAL CHIP	10K	5%	1/10W
~~~				R2041	1-216-817-11	METAL CHIP	470	5%	1/10W
Q2013	8-729-010-05	TRANSISTOR	MSB709-RT1						
Q6102	8-729-010-25	TRANSISTOR	MSD601-RT1	R2042	1-216-805-11	METAL CHIP	47	5%	1/10W
Q6105	8-729-010-05	TRANSISTOR	MSB709-RT1	R2043	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q6103 Q6107	8-729-140-96	TRANSISTOR	2SD774-34	R2044	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q6107 Q6108	8-729-010-25	TRANSISTOR	MSD601-RT1	R2045	1-216-805-11	METAL CHIP	47	5%	1/10W
QUIUU	0-729-010-25	INANSISTON	INDUOT-KTT	R2046	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
06100	8.720.010.05	TDANGISTOD	MSR700 DT1						
Q6109	8-729-010-05	TRANSISTOR	MSB709-RT1	R2047	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q6110	8-729-010-05	TRANSISTOR	MSB709-RT1	R2048	1-216-847-11	METAL CHIP	150K	5%	1/10W
Q6111	8-729-010-25	TRANSISTOR	MSD601-RT1	R2049	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
Q6112	8-729-010-25	TRANSISTOR	MSD601-RT1	R2050	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q6209	8-729-010-25	TRANSISTOR	MSD601-RT1	R2051	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q6210	8-729-010-25	TRANSISTOR	MSD601-RT1						
				R2052	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
				R2053	1-216-833-11	METAL CHIP	10K	5%	1/10W
				R2054	1-216-833-11	METAL CHIP	10K	5%	1/10W
				1 K2004	1-210-033-11	IVIE IAL UNIF	IUN	J /0	1/10//



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.I	NO. PART NO.	DESCRIPTION	VAL	UES	
R2057	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	⚠ R6001	1-219-568-91	METAL	8.2M	5%	1/2W
R2058	1-216-819-11	METAL CHIP	680	5%	1/10W	R6002		CEMENTED	0.22	5%	10W
R2059	1-216-819-11	METAL CHIP	680	5%	1/10W	R6004		CEMENTED	0.22	5%	10W
R2060	1-216-795-11	METAL CHIP	6.8	5%	1/10W	R6012		METAL	470K	5%	1/2W
R2061	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6013		METAL	470K	5%	1/2W
						110010	121001011	WIE I/ LE	17010	070	1/211
R2062	1-216-837-11	METAL CHIP	22K	5%	1/10W	R6111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2063	1-216-839-11	METAL CHIP	33K	5%	1/10W	R6113		METAL CHIP	1K	5%	1/10W
R2065	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R6115		METAL CHIP	22K	5%	1/10W
R2066	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6116		METAL CHIP	10K	5%	1/10W
						1.0110	1 210 000 11	WE IT IE OT III	TOIL	<b>3</b> / 0	1710
R2067	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2068	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6119		METAL CHIP	22K	5%	1/10W
R2069	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6120		METAL CHIP	47K	5%	1/10W
R2071	1-216-864-11	SHORT CHIP				R6121		METAL CHIP	47K	5%	1/10W
R2073	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6122		METAL CHIP	10K	5%	1/10W
	. 2.0 020			0,0		110122	1-210-030-11	WIL TAL OTTI	IUIX	J /0	1/1044
R2076	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6123	3 1-216-833-11	METAL CHIP	10K	5%	1/10W
R2077	1-216-864-11	SHORT CHIP	1011	070	171011	R6124		METAL CHIP	47K	5%	1/10W
R2079	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6125		METAL CHIP	47K	5%	1/10W
R2082	1-216-857-11	METAL CHIP	1M	5%	1/10W	R6126		METAL CHIP	22K	5%	1/10W
R2083	1-216-847-11	METAL CHIP	150K	5%	1/10W	R6127			47K	5%	1/10W
112000	1210011 11	ME I/IE O/III	10010	070	171011	ROIZI	7 1-216-841-11	METAL CHIP	4/N	370	1/1000
R2084	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6128	3 1-216-841-11	METAL CHIP	47K	5%	1/10W
R2086	1-216-864-11	SHORT CHIP	1011	070		R6128		METAL CHIP	47K	5%	1/10W
R2087	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R6130		METAL CHIP	47K	5%	1/10W
R2090	1-216-809-11	METAL CHIP	100	5%	1/10W	R6206		METAL CHIP	22		1/10W
R2091	1-216-809-11	METAL CHIP	100	5%	1/10W	R6207			3.3K		1/10W
112001	1 210 000 11	me n te on m	100	070		10207	7 1-218-859-11	METAL CHIP	3.31	0.50 /6	1/1000
R2092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R6208	3 1-211-969-11	METAL CHIP	10	0.50%	1/10W
R2093	1-216-809-11	METAL CHIP	100	5%	1/10W	R6209		METAL CHIP	1K		1/10W
R2097	1-216-864-11	SHORT CHIP				R6210		METAL CHIP	33		1/10W
R2098	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6211		METAL CHIP	1K		1/10W
R2099	1-216-837-11	METAL CHIP	22K	5%	1/10W	R6222		RES-CHIP	3.3K	5%	1/10W
				0,0		110222	1-210-001-91	NEO-OHII	0.01	J /0	1/1044
R2101	1-216-839-11	METAL CHIP	33K	5%	1/10W	R6223	3 1-216-837-11	METAL CHIP	22K	5%	1/10W
R2102	1-216-864-11	SHORT CHIP				R6225		METAL CHIP	2.2K	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W	R6226		METAL CHIP	10K	5%	1/10W
R2104	1-216-864-11	SHORT CHIP				R6227		METAL CHIP	33		1/10W
R2109	1-216-819-11	METAL CHIP	680	5%	1/10W	R6229		METAL CHIP	1K		1/10W
						110223	1-210-0-17-11	WE TAL OTH	Ш	0.5070	1/1044
R2110	1-216-819-11	METAL CHIP	680	5%	1/10W	R6230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2111	1-216-819-11	METAL CHIP	680	5%	1/10W	R6231		METAL CHIP	1K	5%	1/10W
R2112	1-216-819-11	METAL CHIP	680	5%	1/10W	R6232		CARBON	0.47	5%	1/4W
R2114	1-216-864-11	SHORT CHIP				R6233		CARBON	0.47	5%	1/4W
R2116	1-215-880-00	METAL OXIDE	10	5%	2W	110230	, 1-4 <del>1</del> 3-011-11	OUINDOM	U. <del>T</del> 1	J /0	1/ <b>TVV</b>
•	• ••		• •	- / •	-		RELAY				
R2117	1-216-819-11	METAL CHIP	680	5%	1/10W		ILLAI				
R2118	1-215-880-00	METAL OXIDE	10	5%	2W	⚠ RY600	00 1-755-395-11	RELAY (AC POWER	R)		
R2119	1-216-819-11	METAL CHIP	680	5%	1/10W						
R2121	1-216-819-11	METAL CHIP	680	5%	1/10W		TRANSFORME	<u>R</u>			
R2123	1-216-819-11	METAL CHIP	680	5%	1/10W	T0404	4 407 700 44	TDANICEODAED O	TANDDY		
	. =			- /0		T6101	1-437-783-11	TRANSFORMER, S	IANDRA		



F	REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
		TUNER					C1544	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
Λ -							C1545	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	TU2000	8-598-593-20	TUNER, FSS BTF-WA42				C1546	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
1	TU2001	8-598-594-10	TUNER, FSS BTF-FA421									
							C1550	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
		<u>VARISTOR</u>					C1551	1-165-908-11	CERAMIC CHIP	ι 1μF	10%	10V
,	VD6000	1-804-992-21	VARISTOR				C1552	1-165-908-11	CERAMIC CHIP	ι 1μF	10%	10V
'	V D 0 0 0 0	1-004-992-21	VARIOTOR				C1553	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
							C1554	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
Ш	ΙΔΙ											
							C1555	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
	*	A-1302-159-A	UA BOARD, COMPLE	ETE			C1560	1-117-720-11	CERAMIC CHIP	4.7µF		10V
		A-1302-133-A	OA BOARD, COMIFEE	-1-			C1561	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
		CAPACITOR					C1562	1-117-720-11	CERAMIC CHIP	4.7μF	1070	10V
		<u>OAI AOITOIL</u>					C1563	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
(	C1501	1-117-720-11	CERAMIC CHIP	4.7µF		10V	01000	1 107 020 11	OLIVIMO OTIII	υ. τμι	1070	101
(	C1502	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C1564	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
(	C1503	1-117-720-11	CERAMIC CHIP	4.7µF		10V	C1565	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
(	C1504	1-117-720-11	CERAMIC CHIP	4.7µF		10V	C1566	1-107-020-11	CERAMIC CHIP	0.1μF	10%	10V
(	C1505	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C1567	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
							C1568	1-102-976-11	CERAMIC CHIP	0.01μF	10%	16V
(	C1506	1-117-720-11	CERAMIC CHIP	4.7µF		10V	G 1300	1-107-020-11	CERAIVIIC CHIIF	υ. τμι	10 /0	10 V
(	C1507	1-117-720-11	CERAMIC CHIP	4.7µF		10V	C1569	1-107-826-11	CERAMIC CHIP	0.1uE	10%	16V
(	C1508	1-165-908-11	CERAMIC CHIP	1μF	10%	10V				0.1µF	1070	
	C1509	1-165-908-11	CERAMIC CHIP		10%	10V	C1570 C1571	1-164-505-11	CERAMIC CHIP	2.2µF		16V 16V
(	C1510	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C1571	1-164-505-11 1-117-720-11	CERAMIC CHIP CERAMIC CHIP	2.2µF		10V
				•			C1572	1-117-720-11	CERAMIC CHIP	4.7µF		16V
(	C1511	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	01373	1-104-303-11	CERAIVIIC CHIP	2.2µF		100
(	C1512	1-165-908-11	CERAMIC CHIP	1μF	10%	10V	C1574	1-164-505-11	CERAMIC CHIP	2.2µF		16V
(	C1513	1-165-908-11	CERAMIC CHIP	1µF	10%	10V	C1574	1-104-505-11	CERAMIC CHIP	2.2μr 4.7μF		10V
(	C1519	1-162-913-11	CERAMIC CHIP		0.50pF	50V	C1575	1-117-720-11	CERAMIC CHIP			16V
(	C1520	1-162-913-11	CERAMIC CHIP	-	0.50pF					2.2µF		
				•	Ċ		C1577	1-164-505-11 1-164-505-11	CERAMIC CHIP	2.2µF		16V
(	C1523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C1578	1-104-303-11	CERAMIC CHIP	2.2µF		16V
	C1524	1-162-927-11	CERAMIC CHIP		5%	50V	C1570	1-107-826-11	CEDAMIC CLUD	0.1	10%	16\/
(	C1525	1-162-919-11	CERAMIC CHIP		5%	50V	C1579		CERAMIC CHIP	0.1µF		16V
	C1526	1-126-964-11	ELECT		20%	50V	C1580	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1528	1-126-933-11	ELECT	-	20%	16V	C1581	1-117-720-11	CERAMIC CHIP	4.7µF		10V
							C1582	1-117-720-11	CERAMIC CHIP	4.7µF	400/	10V
(	C1530	1-126-964-11	ELECT	10μF	20%	50V	C1583	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1531	1-126-941-11		•	20%	25V	04504	4 400 005 44	FLEOT	470	000/	401/
	C1532	1-107-826-11		•	10%	16V	C1584	1-126-935-11	ELECT	470µF	20%	16V
	C1535	1-126-933-11	ELECT	-	20%	16V	C1585	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1536	1-126-933-11	ELECT		20%	16V	C1586	1-126-935-11	ELECT	470µF	20%	16V
							C1587	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
(	C1537	1-126-933-11	ELECT	100µF	20%	16V	C1588	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1538	1-126-933-11	ELECT	-	20%	16V	0.4	4 40= 000 44	0554446 0115	0.4 =	4601	40) (
	C1539	1-126-933-11	ELECT	-	20%	16V	C1589	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1540	1-126-933-11	ELECT	-	20%	16V	C1590	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1541	1-126-933-11	ELECT	-	20%	16V	C1591	1-126-935-11	ELECT	470µF	20%	16V
,	01071	1 120 000-11	LLLUI	ισομι	<b>_</b> U /U	101	C1592	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
(	C1542	1-126-941-11	ELECT	470µF	20%	25V	C1593	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1543	1-126-935-11			20%	16V						
,	O I OTO	1 120-000-11	LLLOI	-10μ1	<b>L</b> U /0	101						



REF.NO.	PART NO.	DESCRIPTION	VALUE	s			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C1594	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C1643	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1595	1-126-941-11	ELECT	470µF	20%	25V		C1644	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1596	1-126-933-11	ELECT	100µF	20%	16V		C1645	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C1597	1-126-941-11	ELECT	470µF	20%	25V		C1646	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C1598	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C1647	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1599	1-126-933-11	ELECT	100µF	20%	16V		C1648	1-126-963-11	ELECT	4.7µF	20%	50V
C1600	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C1649	1-126-933-11	ELECT	100µF	20%	16V
C1601	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C1650	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1602	1-165-908-11	CERAMIC CHIP	1µF	10%	10V		C1651	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C1603	1-165-908-11	CERAMIC CHIP	1µF	10%	10V		C1652	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C1604	1-126-964-11	ELECT	10µF	20%	50V		C1653	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1610	1-126-933-11	ELECT	100µF	20%	16V		C1654	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1611	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C1655	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1612	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C1656	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1613	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V		C1657	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1614	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V		C1658	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C1615	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C1661	1-126-933-11	ELECT	100µF	20%	16V
C1616	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C1662	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1617	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C1663	1-126-933-11	ELECT	100µF	20%	16V
C1618	1-126-933-11	ELECT	100µF	20%	16V			CONNECTOR				
C1619	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	*	CN1501	1-564-526-11	PLUG, CONNECTOR		11P	
C1620	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	*	CN1502	1-793-498-11	CONNECTOR, BOARD	TO BOARI		
C1621	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	*	CN1503	1-564-524-11	PLUG, CONNECTOR		9P	
C1622	1-164-156-11	CERAMIC CHIP	0.1µF		25V	*	CN1504	1-817-565-11	CONNECTOR, BOARD	TO BOARI	) 11P	
04000	4 400 000 44	FLEOT	4.7	000/	F0\/	*	CN1506	1-564-519-11	PLUG, CONNECTOR		4P	
C1623	1-126-963-11	ELECT	4.7µF	20%	50V		CN1508	1-815-468-11	PIN, CONNECTOR (PC	BOARD)		
C1624	1-164-156-11	CERAMIC CHIP	0.1µF	200/	25V				,	,		
C1625	1-126-933-11	ELECT	100µF	20%	16V			DIODE				
C1626	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
C1627	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D1501	8-719-977-28	DIODE	DTZ10B		
04000	4 404 450 44	OEDAMIC CLUD	0.4		25/		D1502	8-719-977-28	DIODE	DTZ10B		
C1628	1-164-156-11	CERAMIC CHIP	0.1µF	200/	25V		D1503	8-719-977-28	DIODE	DTZ10B		
C1629	1-126-933-11	ELECT	100µF	20%	16V		D1505	8-719-977-28	DIODE	DTZ10B		
C1630	1-126-933-11	ELECT CERAMIC CHIR	100µF	20%	16V		D1506	8-719-977-28	DIODE	DTZ10B		
C1631 C1632	1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1μF 0.1μF	100/	25V 16V		D. / - 4 - 5		21025			
C1032	1-107-826-11	CERAWIC CHIP	υ. ιμπ	10%	100		D1507	8-719-977-28	DIODE	DTZ10B		
C1633	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D1508	8-719-977-28	DIODE	DTZ10B		
C1633	1-162-917-11	CERAMIC CHIP	15pF	5% 5%	50V 50V		D1509	8-719-977-28	DIODE	DTZ10B		
C1635			0.47µF		10V		D1510	8-719-977-28	DIODE	DTZ10B		
C1636	1-125-891-11 1-164-315-11	CERAMIC CHIP	•	10%	50V		D1511	8-719-977-28	DIODE	DTZ10B		
		CERAMIC CHIP	470pF	5% 20%			D. 1 - 1 - 1		21025			
C1637	1-126-964-11	ELECT	10µF	20%	50V		D1512	8-719-977-28	DIODE	DTZ10B		
C1620	1 105 001 11	CEDAMIC CLID	0.47	100/	10\/		D1513	8-719-977-28	DIODE	DTZ10B		
C1638	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		D1514	8-719-977-28	DIODE	DTZ10B		
C1639	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		D1515	8-719-977-28	DIODE	DTZ10B		
C1640	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D1516	8-719-977-28	DIODE	DTZ10B		
C1641	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
C1642	1-164-156-11	CERAMIC CHIP	0.1µF		25V							



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
D1517	8-719-977-28	DIODE	DTZ10B		<u>JACK</u>		
D1519	8-719-977-28	DIODE	DTZ10B				
D1520	8-719-977-28	DIODE	DTZ10B	J1501	1-573-967-12	BLOCK, (S) TERMINAL	
D1521	8-719-977-28	DIODE	DTZ10B	J1502	1-750-516-21	JACK BLOCK, PIN	2P
D1522	8-719-977-28	DIODE	DTZ10B	J1503	1-750-517-21	JACK BLOCK, PIN	3P
				J1504	1-750-517-21	JACK BLOCK, PIN	3P
D1525	8-719-977-28	DIODE	DTZ10B	J1505	1-764-143-11	JACK	
D1526	8-719-977-28	DIODE	DTZ10B				
D1527	8-719-977-28	DIODE	DTZ10B	J1506	1-764-143-11	JACK	
D1528	8-719-977-28	DIODE	DTZ10B	J1508	1-815-015-11	JACK BLOCK, PIN	
D1529	8-719-977-28	DIODE	DTZ10B	J1509	1-815-015-11	JACK BLOCK, PIN	
D 1023	0-119-311-20	DIODE	D1210D				
D1530	8-719-977-28	DIODE	DTZ10B		<u>COIL</u>		
D1530	8-719-977-28	DIODE	DTZ10B	1.4504	4 400 007 44	INDUCTOR	40.11
	8-719-977-28			L1501	1-400-397-11	INDUCTOR	10μH
D1532		DIODE	DTZ10B	L1502	1-400-397-11	INDUCTOR	10μH
D1533	8-719-977-28	DIODE	DTZ10B	L1503	1-400-397-11	INDUCTOR	10μH
D1534	8-719-977-28	DIODE	DTZ10B	L1504	1-400-397-11	INDUCTOR	10μH
5.1-4-		2,025	D==/0D	L1505	1-400-397-11	INDUCTOR	10µH
D1535	8-719-977-28	DIODE	DTZ10B				
D1536	8-719-914-43	DIODE	DAN202K	L1506	1-400-397-11	INDUCTOR	10μH
D1538	8-719-977-28	DIODE	DTZ10B	L1507	1-400-397-11	INDUCTOR	10μH
D1539	8-719-977-28	DIODE	DTZ10B	L1508	1-400-397-11	INDUCTOR	10μH
D1545	8-719-977-28	DIODE	DTZ10B	L1510	1-400-397-11	INDUCTOR	10μH
				L1511	1-400-397-11	INDUCTOR	10µH
D1546	8-719-977-28	DIODE	DTZ10B				
D1547	8-719-977-28	DIODE	DTZ10B	L1512	1-400-397-11	INDUCTOR	10µH
D1548	8-719-977-28	DIODE	DTZ10B	L1513	1-400-397-11	INDUCTOR	10µH
D1549	8-719-977-28	DIODE	DTZ10B	L1514	1-400-397-11	INDUCTOR	10µH
				L1515	1-414-856-11	INDUCTOR	10µH
	FERRITE BEAD			L1516	1-414-856-11	INDUCTOR	10µH
ED 4504	4 444 000 44		0.11	L1601	1-400-397-11	INDUCTOR	10μH
FB1501	1-414-229-11	FERRITE	0μH				· r
FB1502	1-414-229-11	FERRITE	0μΗ		TRANSISTOR		
					<u></u>		
	<u>FILTER</u>			Q1501	8-729-010-05	TRANSISTOR	MSB709-RT1
FL1501	1-239-848-21	FILTER, LOW PASS		Q1502	8-729-010-05	TRANSISTOR	MSB709-RT1
FL1502	1-239-848-21	FILTER, LOW PASS		Q1503	8-729-010-05	TRANSISTOR	MSB709-RT1
FL1503	1-239-848-21	FILTER, LOW PASS		Q1504	8-729-010-05	TRANSISTOR	MSB709-RT1
1 L 1000	1-200-0-21	TILILIX, LOW TAGO		Q1505	8-729-010-05	TRANSISTOR	MSB709-RT1
	<u>IC</u>						
	<u>10</u>			Q1506	8-729-010-05	TRANSISTOR	MSB709-RT1
IC1501	8-752-108-00	IC	CXA2189Q-TL	Q1507	8-729-010-05	TRANSISTOR	MSB709-RT1
IC1502	8-752-107-98	IC	CXA2188Q-T4	Q1508	8-729-010-25	TRANSISTOR	MSD601-RT1
IC1503	8-759-548-56	IC	M52055FP	Q1510	8-729-010-25	TRANSISTOR	MSD601-RT1
IC1504	8-759-450-93	IC	NJM2521M-TE1	Q1511	8-729-122-63	TRANSISTOR	2SA1226-E4
IC1505	8-759-450-93	IC	NJM2521M-TE1				-
				Q1512	8-729-122-63	TRANSISTOR	2SA1226-E4
IC1506	8-752-394-69	IC	CXD2073Q-T4	Q1513	8-729-122-63	TRANSISTOR	2SA1226-E4
IC1507	8-752-102-21	IC	CXA2103AQ	Q1514	8-729-010-05	TRANSISTOR	MSB709-RT1
IC1601	8-759-331-71	IC	NJM4558E(TE2)	Q1515	8-729-010-05	TRANSISTOR	MSB709-RT1
.01001	3.00 00111	· <del>*</del>		Q1523	8-729-010-25	TRANSISTOR	MSD601-RT1
				~			
			I .				



REF.NO.	PART NO.	DESCRIPTION	VALUI	ES		REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
Q1524	8-729-010-25	TRANSISTOR	MSD601	I-RT1		R1526	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1525	8-729-010-05	TRANSISTOR	MSB709	-RT1		R1527	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1526	8-729-010-25	TRANSISTOR	MSD601	I-RT1		R1530	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1527	8-729-010-05	TRANSISTOR	MSB709	-RT1		R1531	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1528	8-729-010-05	TRANSISTOR	MSB709	-RT1		R1532	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1529	8-729-010-25	TRANSISTOR	MSD601			R1533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q1530	8-729-010-25	TRANSISTOR	MSD601			R1534	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q1531	8-729-010-25	TRANSISTOR	MSD601			R1535	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1535	8-729-010-25	TRANSISTOR	MSD601			R1536	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1536	8-729-010-25	TRANSISTOR	MSD601			R1537	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1537	8-729-010-25	TRANSISTOR	MSD601			R1538	1-216-808-11	METAL CHIP	82	5%	1/10W
Q1538	8-729-010-05	TRANSISTOR	MSB709	)-RT1		R1541	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
04500	0.700.040.05	TDANCICTOD	MCDCOA	I DT4		R1542	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
Q1539 Q1540	8-729-010-25 8-729-010-25	TRANSISTOR TRANSISTOR	MSD601 MSD601			R1544	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1541	8-729-010-25	TRANSISTOR	MSD601			R1545	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1542	8-729-010-05	TRANSISTOR	MSB709			R1548	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q1542 Q1543	8-729-010-05	TRANSISTOR	MSD601			R1549	1-216-809-11	METAL CHIP	100	5%	1/10W
Q IJ+J	0-729-010-25	TIVAINOIOTOIX	IVIODOU	171111		R1550	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1544	8-729-010-05	TRANSISTOR	MSB709	LRT1		1(1000	1-210-009-11	WIL TAL CITII	100	J /0	1/1000
Q1545	8-729-010-25	TRANSISTOR	MSD601			R1551	1-216-853-11	METAL CHIP	470K	5%	1/10W
Q1546	8-729-010-25	TRANSISTOR	MSD601			R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q1547	8-729-010-05	TRANSISTOR	MSB709			R1553	1-216-819-11	METAL CHIP	680	5%	1/10W
Q1548	8-729-010-05	TRANSISTOR	MSB709			R1554	1-216-819-11	METAL CHIP	680	5%	1/10W
Q10 <del>1</del> 0	0-729-010-00	TIANOISTON	WOD703	7-1111		R1555	1-216-853-11	METAL CHIP	470K	5%	1/10W
	RESISTOR									• 70	
R1501	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1556	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1501	1-216-853-11	METAL CHIP	470K 470K	5%	1/10W	R1558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1502	1-218-285-11	METAL CHIP	75	5%	1/10W	R1559	1-218-285-11	METAL CHIP	75	5%	1/10W
R1503	1-218-285-11	METAL CHIP	75 75	5%	1/10W	R1560	1-216-809-11	METAL CHIP	100	5%	1/10W
R1504	1-218-285-11	METAL CHIP	75 75	5%	1/10W	R1561	1-216-809-11	METAL CHIP	100	5%	1/10W
111000	1 210 200 11	WIE I'VE OF III	70	070	171000	D4500	4 040 000 44	METAL OLUB	400	<b>5</b> 0/	4/40/4/
R1506	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1562	1-216-809-11	METAL CHIP	100	5%	1/10W
R1507	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1563	1-216-843-11	METAL CHIP	68K	5%	1/10W
R1508	1-218-285-11	METAL CHIP	75	5%	1/10W	R1564	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1509	1-218-285-11	METAL CHIP	75	5%	1/10W	R1565	1-216-809-11	METAL CHIP	100	5% 5%	1/10W
R1510	1-218-285-11	METAL CHIP	75	5%	1/10W	R1566	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1567	1-216-809-11	METAL CHIP	100	5%	1/10W
R1511	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1568	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1569	1-216-809-11	METAL CHIP	100	5%	1/10W
R1513	1-218-285-11	METAL CHIP	75	5%	1/10W	R1570	1-216-809-11	METAL CHIP	100	5%	1/10W
R1514	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1571	1-216-809-11	METAL CHIP	100	5%	1/10W
R1520	1-216-825-11	METAL CHIP	2.2K	5%	1/10W					• 70	
R1521	1-216-825-11	METAL CLID	2.2K	5%	1/10W	R1572	1-216-809-11	METAL CHIP	100	5%	1/10W
R1521 R1522	1-216-824-11	METAL CHIP METAL CHIP	2.2K 1.8K	5% 5%	1/10W	R1573	1-216-809-11	METAL CHIP	100	5%	1/10W
R1522 R1523			1.8K	5% 5%	1/10W	R1574	1-216-843-11	METAL CHIP	68K	5%	1/10W
R1523 R1524	1-216-824-11	METAL CHIP	1.8K 100	5% 5%		R1575	1-216-809-11	METAL CHIP	100	5%	1/10W
R1524 R1525	1-216-809-11 1-216-809-11	METAL CHIP METAL CHIP	100	5% 5%	1/10W 1/10W	R1576	1-216-809-11	METAL CHIP	100	5%	1/10W
INIULU	1-210-003-11	WIL IAL OI III	100	J /0	1/1000						



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
R1578	1-216-813-11	METAL CHIP	220	5%	1/10W	R1630	1-216-819-11	METAL CHIP	680	5%	1/10W
R1579	1-216-813-11	METAL CHIP	220	5%	1/10W	R1631	1-216-819-11	METAL CHIP	680	5%	1/10W
R1580	1-216-809-11	METAL CHIP	100	5%	1/10W	R1632	1-216-819-11	METAL CHIP	680	5%	1/10W
R1581	1-216-809-11	METAL CHIP	100	5%	1/10W	R1633	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1583	1-216-809-11	METAL CHIP	100	5%	1/10W	R1634	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1584	1-216-809-11	METAL CHIP	100	5%	1/10W	R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1585	1-216-809-11	METAL CHIP	100	5%	1/10W	R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1587	1-216-809-11	METAL CHIP	100	5%	1/10W	R1637	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1588	1-216-809-11	METAL CHIP	100	5%	1/10W	R1638	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1589	1-216-809-11	METAL CHIP	100	5%	1/10W	R1639	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1591	1-216-809-11	METAL CHIP	100	5%	1/10W	R1640	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1592	1-216-809-11	METAL CHIP	100	5%	1/10W	R1641	1-216-813-11	METAL CHIP	220	5%	1/10W
R1593	1-216-809-11	METAL CHIP	100	5%	1/10W	R1642	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1594	1-216-813-11	METAL CHIP	220	5%	1/10W	R1643	1-216-809-11	METAL CHIP	100	5%	1/10W
R1595	1-216-813-11	METAL CHIP	220	5%	1/10W	R1644	1-216-809-11	METAL CHIP	100	5%	1/10W
R1596	1-216-809-11	METAL CHIP	100	5%	1/10W	R1646	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1597	1-216-809-11	METAL CHIP	100	5%	1/10W	R1649	1-216-811-11	METAL CHIP	150	5%	1/10W
R1598	1-216-817-11	METAL CHIP	470	5%	1/10W	R1650	1-216-811-11	METAL CHIP	150	5%	1/10W
R1599	1-216-817-11	METAL CHIP	470	5%	1/10W	R1651	1-216-811-11	METAL CHIP	150	5%	1/10W
		0	•	• 70				0		• 70	
R1600	1-216-817-11	METAL CHIP	470	5%	1/10W	R1652	1-216-811-11	METAL CHIP	150	5%	1/10W
R1601	1-216-817-11	METAL CHIP	470	5%	1/10W	R1653	1-216-811-11	METAL CHIP	150	5%	1/10W
R1602	1-216-817-11	METAL CHIP	470	5%	1/10W	R1654	1-216-811-11	METAL CHIP	150	5%	1/10W
R1603	1-216-817-11	METAL CHIP	470	5%	1/10W	R1655	1-216-811-11	METAL CHIP	150	5%	1/10W
R1604	1-216-817-11	METAL CHIP	470	5%	1/10W	R1656	1-216-811-11	METAL CHIP	150	5%	1/10W
R1605	1-216-817-11	METAL CHIP	470	5%	1/10W	R1657	1-216-811-11	METAL CHIP	150	5%	1/10W
R1606	1-216-817-11	METAL CHIP	470	5%	1/10W	R1658	1-216-811-11	METAL CHIP	150	5%	1/10W
R1607	1-216-817-11	METAL CHIP	470	5%	1/10W	R1659	1-216-811-11	METAL CHIP	150	5%	1/10W
R1608	1-216-817-11	METAL CHIP	470	5%	1/10W	R1660	1-216-811-11	METAL CHIP	150	5%	1/10W
R1609	1-216-817-11	METAL CHIP	470	5%	1/10W	R1661	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1610	1-216-817-11	METAL CHIP	470	5%	1/10W	R1662	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1611	1-216-817-11	METAL CHIP	470	5%	1/10W	R1663	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1612	1-216-817-11	METAL CHIP	470	5%	1/10W	R1664	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1613	1-216-817-11	METAL CHIP	470	5%	1/10W	R1665	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1614	1-216-817-11	METAL CHIP	470	5%	1/10W	R1666	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1615	1-216-817-11	METAL CHIP	470	5%	1/10W	R1667	1-216-864-11	SHORT CHIP			
R1616	1-216-817-11	METAL CHIP	470	5%	1/10W	R1668	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1617	1-216-817-11	METAL CHIP	470	5%	1/10W	R1669	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1618	1-216-809-11	METAL CHIP	100	5%	1/10W	R1670	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1619	1-216-809-11	METAL CHIP	100	5%	1/10W	R1671	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1620	1-216-809-11	METAL CHIP	100	5%	1/10W	R1677	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1678	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1679	1-216-809-11	METAL CHIP	100	5%	1/10W
R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1683	1-216-809-11	METAL CHIP	100	5%	1/10W
R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1684	1-216-864-11	SHORT CHIP			
						I					



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R1685	1-216-864-11	SHORT CHIP				R1743	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1686	1-216-864-11	SHORT CHIP				R1744	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1687	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1745	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1688	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1746	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1689	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1747	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1698	1-216-809-11	METAL CHIP	100	5%	1/10W	R1748	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1699	1-216-809-11	METAL CHIP	100	5%	1/10W	R1749	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1700	1-216-809-11	METAL CHIP	100	5%	1/10W	R1757	1-218-285-11	METAL CHIP	75	5%	1/10W
R1701	1-216-809-11	METAL CHIP	100	5%	1/10W	R1758	1-218-285-11	METAL CHIP	75	5%	1/10W
R1702	1-216-864-11	SHORT CHIP				R1759	1-218-285-11	METAL CHIP	75	5%	1/10W
R1703	1-216-864-11	SHORT CHIP				R1760	1-216-864-11	SHORT CHIP			
R1704	1-216-864-11	SHORT CHIP				R1761	1-216-864-11	SHORT CHIP			
R1711	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1762	1-216-806-11	METAL CHIP	56	5%	1/10W
R1712	1-216-864-11	SHORT CHIP				R1763	1-216-806-11	METAL CHIP	56	5%	1/10W
R1713	1-218-841-11	METAL CHIP	560	0.50%	1/10W	R1764	1-216-806-11	METAL CHIP	56	5%	1/10W
R1714	1-218-889-11	METAL CHIP	56K		1/10W	R1765	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1715	1-218-859-11	METAL CHIP	3.3K		1/10W	R1766	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1716	1-218-859-11	METAL CHIP	3.3K		1/10W	R1767	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1717	1-218-855-11	METAL CHIP	2.2K		1/10W	R1768	1-216-841-11	METAL CHIP	47K	5%	1/10W
111111	1 210 000 11	III I I L OI III	2.2.	0.0070	171011	111100	121001111	ME IA LE OT III		070	
R1718	1-216-837-11	METAL CHIP	22K	5%	1/10W	R1769	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1719	1-216-809-11	METAL CHIP	100	5%	1/10W	R1770	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1720	1-218-841-11	METAL CHIP	560		1/10W	11110	121001011	ME IA LE OT III	10011	070	
R1721	1-216-821-11	METAL CHIP	1K	5%	1/10W		VARISTOR				
R1722	1-216-811-11	METAL CHIP	150	5%	1/10W		<u> </u>				
111722	. 210 011 11	III I I L OI III	100	070	171011	VD1534	1-803-974-21	VARISTOR, CHIP	(1608)		
R1723	1-216-839-11	METAL CHIP	33K	5%	1/10W	VD1535	1-803-974-21	VARISTOR, CHIP	(1608)		
R1724	1-216-817-11	METAL CHIP	470	5%	1/10W	VD1536	1-803-974-21	VARISTOR, CHIP	(1608)		
R1725	1-218-865-11	METAL CHIP	5.6K		1/10W	VD1537	1-803-974-21	VARISTOR, CHIP	(1608)		
R1726	1-216-835-11	METAL CHIP	15K	5%	1/10W	VD1538	1-803-974-21	VARISTOR, CHIP	(1608)		
R1727	1-218-841-11	METAL CHIP	560		1/10W						
				0.0070		VD1539	1-803-974-21	VARISTOR, CHIP	(1608)		
R1728	1-216-817-11	METAL CHIP	470	5%	1/10W	VD1540	1-803-974-21	VARISTOR, CHIP	(1608)		
R1729	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1730	1-218-841-11	METAL CHIP	560		1/10W		<u>CRYSTAL</u>				
R1731	1-218-864-11	METAL CHIP	5.1K		1/10W	V1E01	1 701 202 11	VIDDATOD CEDAM	IC		
R1732	1-216-821-11	METAL CHIP	1K	5%	1/10W	X1501	1-781-282-11	VIBRATOR, CERAM VIBRATOR, CRYSTA			
111102	1 210 021 11	ME IAE OI III	111	070	171011	X1502	1-781-131-31	VIDRATUR, CRTSTA	AL.		
R1733	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R1734	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1735	1-218-841-11	METAL CHIP	560		1/10W						
R1736	1-216-812-11	METAL CHIP	180	5%	1/10W						
R1737	1-216-839-11	METAL CHIP	33K	5%	1/10W						
111101	7 2 10 000 11		JJI	<b>₹</b> /0							
R1738	1-218-865-11	METAL CHIP	5.6K	0.50%	1/10W						
R1739	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1740	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1741	1-216-817-11	METAL CHIP	470	5%	1/10W						
R1742	1-216-817-11	METAL CHIP	470	5%	1/10W						
				<b>•</b> /0							



REF.NO.	PART NO.	DESCRIPTION	VALUES	3		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	7					C9639	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
$ \mathbf{A} $	)					C9640	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
<i>,</i> , , ,	_					C9641	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
		lexity of this board, p				C9642	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
		s is not recommended				C9643	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
		replacement is the pro	eferred rep	oair me	ethod.				·		
	Data is provided	for reference only.				C9644	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
	* * 4000 400 *					C9647	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
	* A-1302-160-A	AD BOARD, COMPL	LEIE			C9648	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
						C9649	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	CAPACITOR					C9650	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9600	1-164-392-11	CERAMIC CHIP	390pF	5%	50V						
C9601	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9651	1-164-218-11	CERAMIC CHIP	180pF	5%	50V
C9602	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9652	1-126-933-11	ELECT	100µF	20%	16V
C9603	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9653	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9604	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C9654	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
00001	1 102 021 11	0214 41110 01111	Toopi	070	001	C9655	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	
C9605	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V		1 102 010 11	OLI WINIO OTHI	iopi	олоорг	001
C9606	1-162-965-11	CERAMIC CHIP	0.0015µF		50V	C9656	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50\/
C9607	1-115-416-11	CERAMIC CHIP	0.0010µF	5%	25V	C9657	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9608	1-107-826-11	CERAMIC CHIP	0.001μl 0.1μF	10%	16V	C9658	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9609	1-162-965-11	CERAMIC CHIP	0.0015µF		50V	C9659	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
03003	1-102-303-11	OLIVAIVIIO OTIII	0.00 ισμι	10 /0	30 V	C9660	1-125-837-91	CERAMIC CHIP	0. τμι 1μF	10%	6.3V
C9610	1-162-965-11	CERAMIC CHIP	0.0015µF	100/	50V	09000	1-125-057-91	CLIVAINIC CITII	ıμı	10 /0	0.57
C9611	1-164-156-11	CERAMIC CHIP	0.0013μF 0.1μF	10 /0	25V	C9661	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9612	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V	C9662	1-107-020-11	CERAMIC CHIP	0. τμι 1μF	10%	6.3V
C9612	1-162-970-11	CERAMIC CHIP	0.1μF	10%	25V 25V	C9664	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9613		CERAMIC CHIP		5%	50V	C9666	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9014	1-162-925-11	CERAIVIIC CHIP	68pF	370	30 V	C9000	1-125-657-91	CERAWIO CHIF	īμī	10 /0	0.57
C9615	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C9668	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C9616	1-125-837-91	CERAMIC CHIP	47 ορι 1μF	10%	6.3V	C9672	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9617	1-164-218-11	CERAMIC CHIP	180pF	5%	50V	C9676	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C9618	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9677	1-126-933-11	ELECT	100µF	20%	16V
C9619	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9678	1-120-333-11	CERAMIC CHIP	0.1μF	10%	16V
03013	1-107-020-11	CENAIVIIC CI IIF	υ. τμι	10 /0	100	03070	1-107-020-11	CLIVAINIC CITII	υ. ιμι	10 /0	10 V
C9621	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9679	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9622	1-126-933-11	ELECT	0.1μ1 100μF	20%	16V	C9680	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C9623	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9681	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C9624	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9682	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C9625	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9683	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
03023	1-107-020-11	OLIVAIVIIO OTIII	υ. ιμι	10 /0	10 V	03000	1-107-020-11	OLIVAIMIO OFIII	υ. τμι	10 /0	10 V
C9626	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9684	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C9627	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9685	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9628	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9686	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9629	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9687	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C9630	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C9688	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
03000	1-101-020-11	OLIVAIVIIO OLIII	υ. ιμι	10 /0	10 V	03000	1 102 JZ I-11	JEIV WIIO OI III	σορι	U /U	30 V
C9631	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9689	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C9632	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C9709	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9635	1-162-925-11	CERAMIC CHIP	68pF	5%	50V	C9710	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C9636	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C9711	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C9637	1-125-837-91	CERAMIC CHIP	1μ <b>F</b>	10%	6.3V	C9712	1-164-218-11	CERAMIC CHIP	180pF	5%	50V
			•			1			•		



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALUES
C9718	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	FB9626	1-414-445-11	FERRITE	0μΗ
C9719	1-126-933-11	ELECT	100μF	20%	16V	FB9627	1-414-445-11	FERRITE	0μΗ
C9720	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V				·
C9721	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB9628	1-414-445-11	FERRITE	0μΗ
						FB9629	1-414-445-11	FERRITE	0μΗ
	CONNECTOR					FB9630	1-414-445-11	FERRITE	0μH
	<u> </u>					FB9631	1-414-445-11	FERRITE	0μH
* CN9600	1-564-511-11	PLUG, CONNECTOR	}	8P		FB9632	1-414-445-11	FERRITE	0μH
* CN9601	1-793-497-11	CONNECTOR, BOAR	RD TO BOAR	D 40P		1 20002	1 111 110 11	TERRITE	ομι ι
						FB9633	1-414-445-11	FERRITE	0μH
	DIODE					FB9634	1-414-445-11	FERRITE	0μH
D0000	0.740.070.00	DIODE	DT75 (D			FB9635		FERRITE	0μH
D9600	8-719-976-99	DIODE	DTZ5.1B			LD9099	1-414-445-11	FERRITE	υμπ
D9601	8-719-976-99	DIODE	DTZ5.1B				10		
D9602	8-719-976-99	DIODE	DTZ5.1B				<u>IC</u>		
D9603	8-719-976-99	DIODE	DTZ5.1B			IC9600	8-759-830-08	IC	NJM2068V-TE2
D9604	8-719-081-97	DIODE	MMDL91	4T1		IC9601	8-759-278-58	IC	NJM4558V-TE2
						IC9602	8-759-278-58	IC	NJM4558V-TE2
D9606	8-719-081-97	DIODE	MMDL91	4T1		IC9603	8-759-641-26	IC	NJM2391DL1-33(TE1)
D9607	8-719-081-97	DIODE	MMDL91	4T1		IC9606		IC	CM0033AF
D9608	8-719-081-97	DIODE	MMDL91	4T1		109000	6-704-266-01	10	CIVIUUSSAF
						100007	0.750.007.07	10	CVD06460 6500
						IC9607	8-753-207-87	IC	CXP86460-650Q
	FERRITE BEAD					IC9608	6-704-067-01	IC	M24128-BWMN6T(A)
						IC9609	8-759-352-91	IC	PST9143NL
FB9600	1-414-445-11	FERRITE	0μH			IC9610	8-759-830-08	IC	NJM2068V-TE2
FB9601	1-414-445-11	FERRITE	0μH			IC9611	8-759-830-08	IC	NJM2068V-TE2
FB9602	1-414-445-11	FERRITE	0μH						
FB9605	1-414-445-11	FERRITE	0μH			IC9612	8-759-830-08	IC	NJM2068V-TE2
FB9606	1-414-445-11	FERRITE	0μH			IC9613	8-759-700-65	IC	NJM79L05A
							0011		
FB9607	1-414-445-11	FERRITE	0µH				<u>COIL</u>		
FB9608	1-414-445-11	FERRITE	0μH			L9600	1-469-552-21	INDUCTOR	3.3µH
FB9609	1-414-445-11	FERRITE	0µH						p
FB9610	1-414-445-11	FERRITE	0μH				TRANSISTOR		
FB9611	1-414-445-11	FERRITE	0μH				<u> </u>		
						Q9602	8-729-010-05	TRANSISTOR	MSB709-RT1
FB9612	1-414-445-11	FERRITE	0μH			Q9603	8-729-010-05	TRANSISTOR	MSB709-RT1
FB9613	1-414-445-11	FERRITE	0µH			Q9604	8-729-010-25	TRANSISTOR	MSD601-RT1
FB9614	1-414-445-11	FERRITE	0μH			Q9605	8-729-010-05	TRANSISTOR	MSB709-RT1
FB9616	1-414-445-11	FERRITE	0μΗ			Q9606	8-729-010-25	TRANSISTOR	MSD601-RT1
FB9617	1-414-445-11	FERRITE	0μΗ						
						Q9607	8-729-010-25	TRANSISTOR	MSD601-RT1
FB9618	1-414-445-11	FERRITE	0µH			Q9608	8-729-010-05	TRANSISTOR	MSB709-RT1
FB9619	1-414-445-11	FERRITE	0μH			Q9609	8-729-010-25	TRANSISTOR	MSD601-RT1
FB9620	1-414-445-11	FERRITE	0μΗ			30000	3 120 010 20	110 110101011	MODOVIIII
FB9621	1-414-445-11	FERRITE	0μH				RESISTOR		
FB9622		FERRITE	-				KESISTOR		
FD3022	1-414-445-11	FERRITE	0μΗ			R9600	1-218-863-11	METAL CHIP	4.7K 0.50% 1/10W
ED0000	1 111 115 11	FEDDITE	011			R9601	1-218-861-11	METAL CHIP	3.9K 0.50% 1/10W
FB9623	1-414-445-11	FERRITE	0μH			R9602	1-218-858-11	METAL CHIP	3K 0.50% 1/10W
FB9624	1-414-445-11	FERRITE	0μΗ			R9603	1-218-871-11	METAL CHIP	10K 0.50% 1/10W
FB9625	1-414-445-11	FERRITE	0µH			R9604	1-218-871-11	METAL CHIP	10K 0.50% 1/10W
						110004	1 210-01 1-11	MIL IAL OI III	1010 0.00/0 1/1044



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VAL	UES	
R9605	1-216-841-11	METAL CHIP	47K	5%	1/10W	R9658	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9606	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9659	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9607	1-218-875-11	METAL CHIP	15K	0.50%	1/10W						
R9608	1-216-864-11	SHORT CHIP				R9661	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9610	1-218-895-11	METAL CHIP	100K	0.50%	1/10W	R9662	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R9664	1-216-820-11	METAL CHIP	820	5%	1/10W
R9611	1-218-877-11	METAL CHIP	18K	0.50%	1/10W	R9665	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9612	1-218-847-11	METAL CHIP	1K		1/10W	R9666	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9613	1-216-837-11	METAL CHIP	22K	5%	1/10W	110000	1210 021 11	ME IAE OI III	111	070	171011
R9620	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9667	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9621	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9668	1-216-821-11	METAL CHIP	1K	5%	1/10W
113021	1-210-021-11	METAL OTTI	Ш	370	171000	R9669	1-216-821-11	METAL CHIP	1K	5%	1/10W
DOGOO	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9670	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9622											
R9623	1-216-821-11	METAL CHIP	1K	5% 5%	1/10W	R9671	1-218-877-11	METAL CHIP	18K	0.50%	1/10W
R9626	1-216-809-11	METAL CHIP	100	5%	1/10W	D0070	4 040 000 44	METAL OLUB	0.017	0.500/	4/40/4/
R9627	1-216-809-11	METAL CHIP	100	5%	1/10W	R9673	1-218-860-11	METAL CHIP	3.6K		1/10W
R9628	1-216-809-11	METAL CHIP	100	5%	1/10W	R9674	1-218-877-11	METAL CHIP	18K		1/10W
						R9676	1-218-877-11	METAL CHIP	18K		1/10W
R9629	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R9677	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9630	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R9678	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R9631	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R9633	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9679	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9634	1-216-809-11	METAL CHIP	100	5%	1/10W	R9680	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R9681	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R9635	1-216-809-11	METAL CHIP	100	5%	1/10W	R9682	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R9636	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9683	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R9637	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R9638	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R9684	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R9639	1-216-818-11	METAL CHIP	560	5%	1/10W	R9685	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
						R9686	1-218-883-11	METAL CHIP	33K		1/10W
R9640	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R9687	1-218-871-11	METAL CHIP	10K		1/10W
R9641	1-216-818-11	METAL CHIP	560	5%	1/10W					0.0070	
R9642	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R9688	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R9643	1-216-818-11	METAL CHIP	560	5%	1/10W	R9689	1-218-871-11	METAL CHIP	10K		1/10W
R9644	1-216-833-11	METAL CHIP	10K	5%	1/10W	R9690	1-218-871-11	METAL CHIP	10K		1/10W
N30 <del>44</del>	1-210-055-11	METAL OTTE	IUN	3 /0	1/ 1 <b>UVV</b>	R9691					1/10W
DOGAE	1 010 055 11	METAL CHID	2 21/	0.500/	1/10\\\		1-218-871-11	METAL CHIP	10K		
R9645	1-218-855-11	METAL CHIP	2.2K		1/10W	R9692	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R9646	1-216-809-11	METAL CHIP	100	5%	1/10W	D0000	4 040 000 44	METAL OLUB	7.51/	0.500/	4/40/4/
R9647	1-218-847-11	METAL CHIP	1K		1/10W	R9693	1-218-868-11	METAL CHIP	7.5K		1/10W
R9648	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9695	1-218-860-11	METAL CHIP	3.6K		1/10W
R9649	1-216-809-11	METAL CHIP	100	5%	1/10W	R9696	1-218-877-11	METAL CHIP	18K		1/10W
						R9697	1-218-877-11	METAL CHIP	18K		1/10W
R9650	1-216-809-11	METAL CHIP	100	5%	1/10W	R9698	1-218-868-11	METAL CHIP	7.5K	0.50%	1/10W
R9651	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R9652	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9701	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R9653	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R9702	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R9654	1-216-817-11	METAL CHIP	470	5%	1/10W	R9706	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
						R9707	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R9655	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9708	1-218-863-11	METAL CHIP	4.7K		1/10W
R9656	1-216-817-11	METAL CHIP	470	5%	1/10W						
R9657	1-216-833-11	METAL CHIP	10K	5%	1/10W	R9711	1-216-833-11	METAL CHIP	10K	5%	1/10W
				- / •		R9712	1-216-833-11	METAL CHIP	10K	5%	1/10W
						110112	. = .0 000 11		1011	J /U	



RE	EF.NO.	PART NO.	DESCRIPTION	VALUES	3			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R	9713	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5005	1-107-368-11	MYLAR	0.047µF	10%	200V
	9714	1-218-887-11	METAL CHIP	47K		1/10W		C5006	1-162-131-11	CERAMIC	220pF	10%	2KV
	9715	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5008	1-104-332-11	CERAMIC	470pF	10%	2KV
R	9716	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5009	1-162-318-11	CERAMIC	0.001µF	10%	500V
R9	9717	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5010	1-104-987-11	MYLAR	0.001µF	5%	200V
R9	9718	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5015	1-216-864-11	SHORT CHIP			
	9719	1-218-887-11	METAL CHIP	47K	0.50%	1/10W		C5016	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	9720	1-218-887-11	METAL CHIP	47K		1/10W		C5017	1-104-987-11	MYLAR	0.001µF	5%	200V
R	9721	1-218-841-11	METAL CHIP	560	0.50%	1/10W		C5019	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
R9	9722	1-218-859-11	METAL CHIP	3.3K	0.50%	1/10W		C5021	1-126-947-11	ELECT	47µF	20%	35V
R9	9723	1-218-841-11	METAL CHIP	560	0.50%	1/10W	<u>^</u> !\	C5022	1-117-640-11	FILM	6800pF	3%	1.2KV
	9724	1-218-861-11	METAL CHIP	3.9K	0.50%	1/10W		C5103	1-126-934-11	ELECT	220µF	20%	16V
	9725	1-218-868-11	METAL CHIP	7.5K		1/10W		C5104	1-126-941-11	ELECT	470µF	20%	25V
RS	9726	1-218-860-11	METAL CHIP	3.6K	0.50%	1/10W		C5105	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
R9	9750	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W		C5106	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
	9752	1-218-877-11	METAL CHIP	18K	0.50%	1/10W		C5107	1-136-171-00	FILM	0.33µF	5%	50V
	9753	1-215-866-11	METAL OXIDE	330	5%	1W		C5108	1-126-968-11	ELECT	100µF	20%	50V
								C5109	1-126-941-11	ELECT	470µF	20%	25V
		RESISTOR BRID	<u>oge</u>								- 1		
וח	DOGOO	1 000 576 11	DEC CUID NETWORK	100				C5110	1-162-318-11	CERAMIC	0.001µF	10%	500V
KI	B9600	1-233-576-11	RES, CHIP NETWORK	. 100				C5111	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
		VARIOTOR						C5121	1-126-960-11	ELECT	1μF	20%	50V
		<u>VARISTOR</u>						C5201	1-137-150-51	FILM	0.01µF	5%	100V
	D9600 D9601	1-804-499-21 1-804-499-21	VARISTOR, CHIP VARISTOR, CHIP	(1608) (1608)				C5202	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	D9602	1-804-499-21	VARISTOR, CHIP	(1608)				C5203	1-126-933-11	ELECT	100µF	20%	16V
	D9603	1-804-499-21	VARISTOR, CHIP	(1608)				C5204	1-107-648-91	ELECT	100µF	20%	200V
VL	D3000	1-004-433-21	VARIOTOR, OTH	(1000)				C5205	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
		CRYSTAL						C5206	1-136-187-11	MYLAR	0.047µF	10%	250V
χα	9600	1-795-954-21	PIEZOELECTRIC OSC	II I ATOR				C5207	1-165-727-31	ELECT	120µF	20%	16V
7.0	0000	1 100 001 21	1120222011110 000	ILL) (I OI (					1-162-970-11			10%	25V
	П							C5208		CERAMIC CHIP	0.01µF		
11 )	)							C5209	1-162-924-11	CERAMIC CHIP	56pF	5%	50V
	_							C5210	1-162-968-11	CERAMIC CHIP	0.0047µF		50V
<u> </u>	*	A-1302-161-A	D BOARD, COMPLETI	E				C5211	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		3-710-578-01	COVER, VOLUME, 6 N	IOLD				C5212	1-126-965-91	ELECT	22µF	20%	50V
		4-382-854-01	SCREW (M3X8), P, SW	/ (+)				C5213	1-126-965-91	ELECT	22µF	20%	50V
		4-382-854-21	SCREW (M3X14), P, S	W (+)				C5223	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
								C5228	1-102-228-00	CERAMIC	470pF	10%	500V
	•	•	iated with the FBT on the D										
mı	ust be or	dered separately.	Order the following leads w	nen requesti	ng this D	) board:		C5410	1-162-318-11	CERAMIC	0.001µF	10%	500V
A		4 ===	LEAD 1001	T1.0=				C5411	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
<u>^</u>		1-779-095-51	LEAD ASSY, HIGH VOI					C5414	1-126-927-11	ELECT	2200µF	20%	10V
<u>^</u>		1-900-260-40	CONNECTOR ASSY, M	1V				C5416	1-126-927-11	ELECT	2200µF	20%	10V
		CAPACITOR						C5417	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	E004		0504440 012	0.0000 =	400/	50) <i>(</i>		C5418	1-117-813-11	FILM	0.75µF	5%	250V
	5001	1-162-966-11	CERAMIC CHIP	0.0022µF		50V		C5419	1-107-649-11	ELECT	2.2µF	20%	250V
C	5002	1-162-131-11	CERAMIC	220pF	10%	2KV	I	300		·	p'	_0,0	



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
C5423	1-126-947-11	ELECT	47µF	20%	35V	C6512	1-165-441-81	ELECT	33µF	20%	160V
C5550	1-104-666-11	ELECT	220µF	20%	25V	C6513	1-128-562-11	ELECT	47μF	20%	100V
C5551	1-104-665-11	ELECT	100µF	20%	25V	C6514	1-107-662-11	ELECT	22µF	20%	350V
			•			C6515	1-165-733-31	ELECT	100µF	20%	25V
C5552	1-126-964-11	ELECT	10μF	20%	50V	C6517	1-126-933-11	ELECT	100µF	20%	16V
C5553	1-126-933-11	ELECT	100μF	20%	16V						
C5554	1-115-349-51	CERAMIC	0.01µF		2KV	C6519	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5555	1-126-965-91	ELECT	22μF	20%	50V	C6603	1-102-228-00	CERAMIC	470pF	10%	500V
C5556	1-126-965-91	ELECT	22µF	20%	50V	C6604	1-165-728-31	ELECT	330µF	20%	16V
00000	1 120 000 01	LLLOT	pi	2070	001	C6607	1-165-729-31	ELECT	470μF	20%	16V
C5557	1-162-974-11	CERAMIC CHIP	0.01µF		50V	C6611	1-104-665-11	ELECT	100μF	20%	25V
C5558	1-126-965-91	ELECT	22μF	20%	50V	00011	1 104 000 11	LLLOI	ισομι	2070	201
C5559	1-126-965-91	ELECT	22μF	20%	50V	C6613	1-104-665-11	ELECT	100µF	20%	25V
C5560	1-120-903-91	CERAMIC CHIP	0.01µF	20 /0	50V 50V	C6615	1-104-003-11	CERAMIC		2676 2KV	237
									0.01µF		251/
C5561	1-162-974-11	CERAMIC CHIP	0.01µF		50V	C6616	1-126-941-11	ELECT	470µF	20%	25V
05500	4 400 005 04	FLEOT	00 5	000/	E01/	C6617	1-126-941-11	ELECT	470µF	20%	25V
C5562	1-126-965-91	ELECT	22µF	20%	50V	C6618	1-102-228-00	CERAMIC	470pF	10%	500V
C5563	1-162-974-11	CERAMIC CHIP	0.01µF	50V							
C5564	1-164-156-11	CERAMIC CHIP	0.1µF	25V		C6619	1-102-228-00	CERAMIC	470pF	10%	500V
C5565	1-137-378-11	MYLAR	0.22µF	5%	50V	C6620	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5702	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C6700	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
						C6707	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5703	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6803	1-104-665-11	ELECT	100µF	20%	25V
C6400	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V						
C6401	1-126-964-11	ELECT	10μF	20%	50V	C6804	1-126-964-11	ELECT	10μF	20%	50V
C6402	1-126-963-11	ELECT	4.7µF	20%	50V	C8001	1-126-964-11	ELECT	10μF	20%	50V
C6403	1-126-968-11	ELECT	100µF	20%	50V	C8002	1-126-964-11	ELECT	10μF	20%	50V
						C8003	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6405	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C8004	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6406	1-136-479-11	FILM	0.001µF	5%	100V				•		
C6407	1-130-495-00	MYLAR	0.1µF	5%	50V	C8006	1-126-960-11	ELECT	1µF	20%	50V
C6409	1-126-947-11	ELECT	47μF	20%	35V	C8007	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
			r			C8012	1-126-947-11	ELECT	47µF	20%	35V
C6411	1-100-613-81	CERAMIC	470pF	5%	1KV	C8015	1-126-947-11	ELECT	47µF	20%	35V
C6412	1-100-613-81	CERAMIC	470pF	5%	1KV				p.	_5/0	
C6413	1-165-954-11	FILM	56000pF		800V	C8016	1-130-495-00	MYLAR	0.1µF	5%	50V
C6414	1-103-934-11	MYLAR	2.2µF	10%	450V	C8017	1-130-495-00	ELECT	0.1μ1 22μF	20%	50V
C6416	1-117-220-71	ELECT	2.2μΓ 100μF	20%	35V	C8017	1-126-965-91	ELECT	22μF	20%	50V
00410	1-120-340-11	LLLOI	Ιουμι	20 /0	33 V	C8020	1-120-905-91	MYLAR	22μι 0.1μF	5%	50V
C6/17	1 162 074 11	CEDAMIC CUID	0.01uE	E0\/					0.1μΓ 0.0047μF		
C6417	1-162-974-11	CERAMIC CHIP	0.01µF	50V	251	C8021	1-162-968-11	CERAMIC CHIP	0.0047μΓ	10%	50V
C6418	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	00004	4 400 047 44	FLECT	47	000/	051/
C6419	1-126-941-11	ELECT	470µF	20%	25V	C8024	1-126-947-11	ELECT	47µF	20%	35V
C6420	1-126-941-11	ELECT	470µF	20%	25V	C8025	1-126-947-11	ELECT	47µF	20%	35V
		ELECT	1000µF	20%	35V	C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C6500	1-126-952-11	LLLOI				C8028	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C6501	1-126-952-11	ELECT	1000µF	20%	35V	C8030	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6501 C6503		ELECT ELECT	1500µF	20%	25V	C8030		CERAMIC CHIP	0.01µF	10%	
C6501 C6503 C6504	1-126-952-11	ELECT ELECT ELECT	1500μF 1500μF	20% 20%	25V 25V	C8031	1-162-970-11 1-126-933-11	CERAMIC CHIP ELECT	0.01μF 100μF	10%	16V
C6501 C6503	1-126-952-11 1-131-970-11	ELECT ELECT	1500µF	20%	25V			CERAMIC CHIP	0.01µF	10%	16V
C6501 C6503 C6504	1-126-952-11 1-131-970-11 1-131-970-11	ELECT ELECT ELECT	1500μF 1500μF	20% 20%	25V 25V	C8031	1-126-933-11	CERAMIC CHIP ELECT	0.01μF 100μF	10%	16V
C6501 C6503 C6504 C6505	1-126-952-11 1-131-970-11 1-131-970-11 1-131-970-11	ELECT ELECT ELECT ELECT	1500μF 1500μF 1500μF	20% 20% 20%	25V 25V 25V	C8031 C8032	1-126-933-11 1-117-160-51	CERAMIC CHIP  ELECT  FILM	0.01μF 100μF 680pF	10% 20% 2.00%	16V 100V



	REF.NO.	PART NO.	DESCRIPTION	VALUES	6			REF.NO.	PART NO.	DESCRIPTION	VALUES
	C8037	1-165-954-11	FILM	56000pF	3%	800V		D5202	8-719-028-45	DIODE	D2L20U
	C8040	1-126-969-11	ELECT	220µF	20%	50V		D5203	8-719-081-97	DIODE	MMDL914T1
	C8041	1-130-495-00	MYLAR	0.1µF	5%	50V		D5204	8-719-081-97	DIODE	MMDL914T1
	C8042	1-136-189-00	MYLAR	0.1µF	10%	250V		D5205	8-719-081-97	DIODE	MMDL914T1
	C8045	1-130-471-00	MYLAR	0.001µF	5%	50V		D5206	8-719-081-97	DIODE	MMDL914T1
	000.0		=	0.00 .p.	0,0			20200		2.022	
	C8046	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V		D5207	8-719-081-97	DIODE	MMDL914T1
	C8048	1-130-495-00	MYLAR	0.1µF	5%	50V		D5209	8-719-066-11	DIODE	1PS184-115
	C8063	1-135-945-22	FILM	10000pF	3%	800V		D5404	8-719-908-03	DIODE	GP08D
	C8065	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V		D5520	8-719-081-97	DIODE	MMDL914T1
	C8070	1-126-967-11	ELECT	47μF	20%	50V		D5521	8-719-081-97	DIODE	MMDL914T1
	C8073	1-164-315-11	CERAMIC CHIP	470pF	5%	50V		D5701	8-719-070-57	DIODE	PDZ5.6B-115
	C8074	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		D6401	8-719-083-78	DIODE	10ERA60-TP
	C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		D6406	8-719-082-03	DIODE	MM3Z15VT1
	C8076	1-126-963-11	ELECT	4.7µF	20%	50V		D6407	8-719-082-03	DIODE	MM3Z15VT1
	C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		D6410	6-500-567-21	DIODE	10ERB20-TB5
	C8139	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
								D6411	8-719-082-03	DIODE	MM3Z15VT1
		CONNECTOR						D6413	8-719-082-03	DIODE	MM3Z15VT1
*	CN5003	1-564-508-11	PLUG, CONNECTOR		5P			D6415	8-719-082-03	DIODE	MM3Z15VT1
*	CN5004	1-779-890-11	CONNECTOR, BOARD	TO BOARD				D6502	8-719-060-88	DIODE	D4SBS6
*	CN5005	1-779-890-11	CONNECTOR, BOARD					D6503	8-719-060-88	DIODE	D4SBS6
*	CN5006	1-779-890-11	CONNECTOR, BOARD								
*	CN5007	1-779-890-11	CONNECTOR, BOARD					D6508	8-719-062-40	DIODE	D4SBL20µF3
								D6509	8-719-052-90	DIODE	D1NL40-TA2
*	CN5008	1-564-509-11	PLUG, CONNECTOR		6P			D6510	8-719-052-37	DIODE	F10P04Q
*	CN5009	1-580-689-11	PIN, CONNECTOR (PC	BOARD)	4P			D6511	6-500-567-21	DIODE	10ERB20-TB5
*	CN5010	1-580-689-11	PIN, CONNECTOR (PC	,	4P			D6602	8-719-028-45	DIODE	D2L20U
*	CN5011	1-580-689-11	PIN, CONNECTOR (PC	,	4P			Deena	0 710 075 66	DIODE	DEI C2011 4042
				•				D6604 D6606	8-719-075-66 8-719-028-72	DIODE	D5LC20U-4012 RGP02-17EL-6433
*	CN5013	1-564-506-11	PLUG, CONNECTOR		3P			D6607	8-719-028-45	DIODE	D2L20U
*	CN5014	1-564-506-11	PLUG, CONNECTOR		3P			D6608	8-719-028-45	DIODE	D2L20U
*	CN5015	1-564-506-11	PLUG, CONNECTOR		3P			D6800	8-719-150-92	DIODE	RD33EB3T
	CN5016	1-764-334-11	PIN, CONNECTOR(PC	B)(V TYPE)	11P			D0000	0-7 19-130-92	DIODL	NDOOLDOT
*	CN5017	1-564-509-11	PLUG, CONNECTOR		6P			D6803	8-719-081-97	DIODE	MMDL914T1
								D6804	6-500-654-01	DIODE	MM3Z3V0T1
*	CN5019	1-564-506-11	PLUG, CONNECTOR		3P			D6805	8-719-081-97	DIODE	MMDL914T1
*	CN5500	1-691-135-11	PIN, CONNECTOR (PC	,	4P			D8001	8-719-081-97	DIODE	MMDL914T1
*	CN6400	1-580-843-11	PIN, CONNECTOR (PC	,				D8003	8-719-081-97	DIODE	MMDL914T1
	CN6401	1-764-101-11	PIN, CONNECTOR (PC	BOARD)	2P			20000	0 1 10 001 01	51052	MIND LOTTE
	CN8001	1-695-915-11	TAB (CONTACT)					D8005	8-719-081-97	DIODE	MMDL914T1
								D8006	6-500-567-21	DIODE	10ERB20-TB5
		DIODE						D8007	8-719-081-97	DIODE	MMDL914T1
	D5003	8-719-081-97	DIODE	MMDL914	T1			D8008	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V
	D5005	8-719-081-97	DIODE	MMDL914				D8009	8-719-072-69	DIODE	PDZ15B-115
	D5101	8-719-036-94	DIODE	RD5.6SB-							
	D5102	8-719-908-03	DIODE	GP08D				D8010	8-719-083-78	DIODE	10ERA60-TP
	D5201	8-719-110-39	DIODE	RD15ESB	1			D8011	8-719-082-03	DIODE	MM3Z15VT1
	-=* 1		-					D8012	8-719-082-03	DIODE	MM3Z15VT1
								D8015	8-719-081-97	DIODE	MMDL914T1
							ı				



	REF.NO.	PART NO.	DESCRIPTION	VALUES		REF.NO.	PART NO.	DESCRIPTION	VALUES
<u>^</u>	D8022	8-719-063-73	DIODE	D1NL20U-TR	<u>^</u>	IC8002	6-703-355-01	IC	MCZ3001DA
	D8023	8-719-070-10	DIODE	NNCD5.1A-T1	<u>^</u> !\	IC8004	8-759-701-01	IC	NJM2904M
	D8024	8-719-056-82	DIODE	UDZ-TE-17-6.2B	<u>^</u>	IC8005	8-759-586-17	IC	TL1431CZ-AP
	D8026	8-719-081-97	DIODE	MMDL914T1		IC8006	8-759-700-07	IC	NJM2903M
	D8027	6-500-654-01	DIODE	MM3Z3V0T1	<u>^</u>	IC8104	8-759-586-17	IC	TL1431CZ-AP
	Dagge	0.740.050.00	DIODE	LIDZ TE 47 400			OUID COMPLICE	-	
	D8030	8-719-056-93	DIODE	UDZ-TE-17-18B			CHIP CONDUCT	<u>0R</u>	
	D8034	8-719-056-83	DIODE	UDZ-TE-17-6.8B		JR1001	1-216-864-11	SHORT CHIP	
	D8038	8-719-082-03	DIODE	MM3Z15VT1		JR1002	1-216-864-11	SHORT CHIP	
	D8039	8-719-082-03	DIODE	MM3Z15VT1		JR1003	1-216-864-11	SHORT CHIP	
	D8041 D8140	8-719-082-03	DIODE DIODE	MM3Z15VT1 MA111-TX		JR1004	1-216-864-11	SHORT CHIP	
	D0140	8-719-404-50	DIODE	WATTI-TA		JR1005	1-216-864-11	SHORT CHIP	
		FERRITE BEAD				ID 4000	4 040 004 44	OLIOPE OLUP	
	ED 5004	4 400 570 44	EEDDITE.	4.4.11		JR1006	1-216-864-11	SHORT CHIP	
	FB5201	1-469-578-11	FERRITE	1.1µH		JR1007	1-216-864-11	SHORT CHIP	
	FB5203	1-469-127-21	FERRITE	0μΗ		JR1008	1-216-864-11	SHORT CHIP	
	FB5205	1-469-578-11	FERRITE	1.1µH		JR1009	1-216-864-11	SHORT CHIP	
	FB5206	1-469-578-11	FERRITE	1.1µH		JR1010	1-216-864-11	SHORT CHIP	
	FB6400	1-469-579-11	FERRITE	0.45μH		ID4044	4 040 004 44	CHODT CHID	
	FD6404	1 460 570 11	CEDDITE	0.45		JR1011	1-216-864-11	SHORT CHIP	
	FB6401	1-469-579-11	FERRITE	0.45µH		JR1013	1-216-864-11	SHORT CHIP	
	FB6402	1-469-579-11	FERRITE	0.45µH		JR1014	1-216-864-11	SHORT CHIP	
	FB6403 FB6405	1-469-579-11	FERRITE FERRITE	0.45µH		JR1015	1-216-864-11	SHORT CHIP	
	FB6406	1-469-579-11 1-469-579-11	FERRITE	0.45μH 0.45μH		JR1017	1-216-864-11	SHORT CHIP	
	FB0 <del>4</del> 00	1-409-379-11	FERRITE	υ.40μιι		JR1018	1-216-864-11	SHORT CHIP	
	FB6407	1-469-579-11	FERRITE	0.45µH		JR1019	1-216-864-11	SHORT CHIP	
	FB6408	1-469-579-11	FERRITE	0.45μH		JR1020	1-216-864-11	SHORT CHIP	
	FB6500	1-469-579-11	FERRITE	0.45µH		JR1021	1-216-864-11	SHORT CHIP	
	FB6501	1-469-579-11	FERRITE	0.45µH		JR1022	1-216-864-11	SHORT CHIP	
	FB6506	1-469-578-11	FERRITE	1.1µH					
				· ·		JR1023	1-216-864-11	SHORT CHIP	
	FB6507	1-469-578-11	FERRITE	1.1µH		JR1024	1-216-864-11	SHORT CHIP	
	FB6508	1-469-578-11	FERRITE	1.1μH		JR1025	1-216-864-11	SHORT CHIP	
	FB8001	1-469-579-11	FERRITE	0.45µH		JR1026	1-216-864-11	SHORT CHIP	
	FB8002	1-469-579-11	FERRITE	0.45µH					
	FB8003	1-469-579-11	FERRITE	0.45µH		JR1028	1-216-864-11	SHORT CHIP	
						JR1029	1-216-864-11	SHORT CHIP	
		<u>IC</u>				JR1031	1-216-864-11	SHORT CHIP	
	105404	0.750.502.22	10	1 470045		JR1032	1-216-864-11	SHORT CHIP	
	IC5101	8-759-593-33	IC	LA78045		JR1033	1-216-864-11	SHORT CHIP	
	IC5201	8-759-585-82	IC	BA9759F-E2					
	IC5402 IC5403	8-759-803-42 8-759-701-01	IC IC	LA6500-FA		JR1034	1-216-864-11	SHORT CHIP	
	IC6400	6-703-355-01	IC	NJM2904M MCZ3001DA		JR1036	1-216-864-11	SHORT CHIP	
	100400	0-703-333-01	Ю	WOZJOU IDA		JR5401	1-216-864-11	SHORT CHIP	
	IC6501	8-759-518-68	IC	PQ12RF21		JR5403	1-216-864-11	SHORT CHIP	
	IC6503	6-704-264-01	IC	EK1135		JR6501	1-216-864-11	SHORT CHIP	
	IC6602	8-759-665-67	IC	PQ30RV2B					
	IC6801	8-749-921-86	IC	PQ30RV2B SE-140N		JR6509	1-216-864-11	SHORT CHIP	
<u>^</u> !\	IC8001	8-759-700-07	IC	NJM2903M		JR6602	1-216-864-11	SHORT CHIP	
/··	100001	0 100 100-01		TATIVIEGOUIVI		JR6702	1-216-864-11	SHORT CHIP	



RE	F.NO.	PART NO.	DESCRIPTION	VALUES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
		COIL				Q5524	8-729-207-89	TRANSISTOR	2SA135	8-Y	
				400 11		Q5525	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
	5101	1-406-665-11	INDUCTOR	100μH		Q5526	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
	5202	1-414-189-31	INDUCTOR	100µH							
	403	1-456-109-11	COIL,HORIZONTAL LI			Q5527	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
	405	1-412-552-11	INDUCTOR	2.2MH		Q5528	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
L5	5520	1-412-525-31	INDUCTOR	10μH		Q5701	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
				40.11		Q5702	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
	5521	1-412-525-31	INDUCTOR	10μH		Q5703	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
	5522	1-414-187-11	INDUCTOR	47μH							
	5523	1-414-187-11	INDUCTOR	47μH		Q6400	6-550-526-11	TRANSISTOR	2SK284	2(LBS2S	ONY)
	3400	1-414-187-11	INDUCTOR	47µH		Q6401	6-550-526-11	TRANSISTOR	2SK284	2(LBS2S	ONY)
L6	5501	1-412-525-31	INDUCTOR	10μH		Q6402	8-729-421-22	TRANSISTOR	UN2211	,	•
						Q6403	8-729-421-22	TRANSISTOR	UN2211		
	502	1-412-525-31	INDUCTOR	10μH		Q6404	8-729-421-22	TRANSISTOR	UN2211		
	5503	1-412-525-31	INDUCTOR	10μH							
	505	1-412-525-31	INDUCTOR	10μH		Q6802	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
	508	1-412-525-31	INDUCTOR	10μH		Q6803	8-729-019-57	TRANSISTOR	2SA120	8S-TP	
L8	3002	1-428-950-31	INDUCTOR	125µH		Q8003	8-729-010-25	TRANSISTOR	MSD60		
						Q8004	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
		PHOTO COUPLE	<u>R</u>		<u> </u>		8-729-010-25	TRANSISTOR	MSD60	1-RT1	
⚠ PH	H6401	8-749-016-81	PHOTO COUPLER	PC123Y22							
	H6700	8-749-016-81	PHOTO COUPLER	PC123Y22	<u> </u>	Q8008	8-729-010-25	TRANSISTOR	MSD60	1-RT1	
	H8001	8-749-016-81	PHOTO COUPLER	PC123Y22		Q8009	8-729-010-25	TRANSISTOR	MSD60		
	H8003	8-749-016-81	PHOTO COUPLER	PC123Y22		Q8011	8-729-010-05	TRANSISTOR	MSB709		
	18004	8-749-016-81	PHOTO COUPLER	PC123Y22		Q8013	6-550-526-11	TRANSISTOR		2(LBS2S	ONY)
- ''	10007	0-7-40-010-01	THOTO COOLEEN	1 0120122		Q8014	6-550-526-11	TRANSISTOR		2(LBS2S	
		IC LINK									,
		IO EIIII				Q8021	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
⚠ PS	35401	1-532-685-00	IC LINK	0.8A 50V		Q8028	8-729-421-22	TRANSISTOR	UN2211		
						Q8034	8-729-421-22	TRANSISTOR	UN2211		
		<u>TRANSISTOR</u>				Q8035	8-729-010-05	TRANSISTOR	MSB709	9-RT1	
05	E004	6 550 077 01	TDANCICTOD	2005770 DD							
	5001	6-550-077-01	TRANSISTOR	2SC5778-RB							
	5004	8-729-010-25	TRANSISTOR	MSD601-RT1			RESISTOR				
	5005	8-729-010-25	TRANSISTOR TRANSISTOR	MSD601-RT1		R5001	1-243-619-71	METAL OXIDE	12K	5%	3W
	5006	8-729-038-83 8-729-010-25		2SK2251-01-F19 MSD601-RT1		R5002	1-243-619-71	METAL OXIDE	12K	5%	3W
Q	5008	0-729-010-23	TRANSISTOR	MODOUT-KTT		R5003	1-215-873-00	METAL OXIDE	4.7K	5%	1W
05	5009	8-729-010-05	TRANSISTOR	MSB709-RT1		R5010	1-243-801-71	METAL OXIDE	0.22	5%	1W
	5101	8-729-010-05	TRANSISTOR	MSD601-RT1		R5019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	5101	8-729-010-25	TRANSISTOR	MSD601-RT1						-,-	
	5102					R5020	1-216-833-11	METAL CHIP	10K	5%	1/10W
	5201	8-729-010-25 6 550 153 11	TRANSISTOR	MSD601-RT1 FQpF12P20YDTU		R5021	1-216-809-11	METAL CHIP	100	5%	1/10W
Q	3201	6-550-153-11	TRANSISTOR	ruprizrzututu		R5023	1-216-833-11	METAL CHIP	10K	5%	1/10W
0	5202	8.720.010.25	TDANGISTOD	MSD601 DT1		R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W
	5202 5203	8-729-010-25 8-720-010-25	TRANSISTOR	MSD601-RT1		R5025	1-216-809-11	METAL CHIP	100	5%	1/10W
	5203 5406	8-729-010-25	TRANSISTOR	MSD601-RT1			, 2.0 300 11			- 70	
	5406 5520	8-729-048-47	TRANSISTOR	2SC2688(5)-LK		R5028	1-216-821-11	METAL CHIP	1K	5%	1/10W
	5520 5521	6-550-659-01	TRANSISTOR	2SC4634LS-YB11		R5029	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q	5521	8-729-010-05	TRANSISTOR	MSB709-RT1		R5031	1-249-393-11	CARBON	10	5%	1/4W
0.5	5522	0 720 046 00	TDANCICTOR	2004624L0 0D44		R5032	1-216-841-11	METAL CHIP	47K	5%	1/10W
	5522 5523	8-729-046-80	TRANSISTOR	2SC4634LS-CB11		R5033	1-249-401-11	CARBON	47	5%	1/4W
Q	5523	8-729-207-82	TRANSISTOR	2SC3421-Y	I		, = .0 101 11	<i>5.</i> <del>- 5</del> . !	••	- 70	



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R5101	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5247	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5102	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5249	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5103	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5250	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R5106	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5251	1-218-895-11	METAL CHIP	100K		1/10W
						R5252	1-218-895-11	METAL CHIP	100K		1/10W
R5107	1-218-865-11	METAL CHIP	5.6K	0.50%	1/10W	R5415	1-243-693-71	METAL OXIDE	270	5%	1W
R5108	1-218-865-11	METAL CHIP	5.6K		1/10W	R5417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5109	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R5110	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5111	1-249-383-11	CARBON	1.5	5%	1/4W	R5424	1-243-521-71	METAL OXIDE	15	5%	3W
110111	1210 000 11	O/ II (DOI)	1.0	070	"""	R5427	1-243-713-71	METAL OXIDE	10K	5%	1W
R5112	1-218-865-11	METAL CHIP	5.6K	0.50%	1/10W	R5430	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5112	1-218-865-11	METAL CHIP	5.6K		1/10W	R5432	1-216-809-11	METAL CHIP	100	5%	1/10W
R5115	1-218-867-11	METAL CHIP	6.8K		1/10W	110402	1-210-009-11	WIL TAL OTTI	100	J /0	17 10 00
R5116	1-218-867-11	METAL CHIP	6.8K		1/10W	R5433	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5110		METAL	2.2	1%	1/10VV 1/2W	R5434	1-216-821-11	METAL CHIP	1K	5%	1/10W
KOIII	1-214-800-11	IVIETAL	2.2	170	1/244						1/10W 1/2W
DE110	1-214-800-11	METAL	2.2	10/	1/2\\/	R5435	1-260-314-11	CARBON	68	5%	
R5118		METAL OVIDE	2.2	1%	1/2W	R5571	1-249-377-11	CARBON	0.47	5%	1/4W
R5119	1-243-572-71	METAL OXIDE	470	5% 5%	2W	R5575	1-260-131-11	CARBON	470K	5%	1/2W
R5120	1-243-572-71	METAL OXIDE	470	5% 50/	2W	D5570	4 040 000 44	METAL OLUB	4017	<b>5</b> 0/	4/40\4/
R5121	1-249-414-11	CARBON	560	5%	1/4W	R5576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5126	1-218-917-11	METAL CHIP	820K	0.50%	1/10W	R5577	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
5-10-				-0/		R5578	1-216-809-11	METAL CHIP	100	5%	1/10W
R5127	1-216-857-11	METAL CHIP	1M	5%	1/10W	R5579	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5201	1-218-879-11	METAL CHIP	22K		1/10W	R5580	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5202	1-218-883-11	METAL CHIP	33K		1/10W						
R5206	1-249-425-11	CARBON	4.7K	5%	1/4W	R5581	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5207	1-218-889-11	METAL CHIP	56K	0.50%	1/10W	R5582	1-218-863-11	METAL CHIP	4.7K		1/10W
						R5583	1-260-107-11	CARBON	4.7K	5%	1/2W
R5208	1-249-409-11	CARBON	220	5%	1/4W	R5584	1-243-598-71	METAL OXIDE	68K	5%	2W
R5209	1-218-895-11	METAL CHIP	100K		1/10W	R5585	1-243-598-71	METAL OXIDE	68K	5%	2W
R5210	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R5211	1-218-895-11	METAL CHIP	100K		1/10W	R5586	1-218-854-11	METAL CHIP	2K		1/10W
R5212	1-218-871-11	METAL CHIP	10K	0.50%	1/10W	R5587	1-260-328-11	CARBON	1K	5%	1/2W
						R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5213	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5589	1-249-385-11	CARBON	2.2	5%	1/4W
R5214	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5590	1-249-385-11	CARBON	2.2	5%	1/4W
R5215	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R5216	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5591	1-216-801-11	METAL CHIP	22	5%	1/10W
R5217	1-218-871-11	METAL CHIP	10K	0.50%	1/10W	R5592	1-216-801-11	METAL CHIP	22	5%	1/10W
						R5593	1-216-816-11	METAL CHIP	390	5%	1/10W
R5221	1-218-895-11	METAL CHIP	100K	0.50%	1/10W	R5594	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5223	1-218-895-11	METAL CHIP	100K	0.50%	1/10W	R5595	1-216-813-11	METAL CHIP	220	5%	1/10W
R5225	1-216-864-11	SHORT CHIP									
R5231	1-216-864-11	SHORT CHIP				R5596	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R5237	1-216-864-11	SHORT CHIP				R5597	1-216-819-11	METAL CHIP	680	5%	1/10W
						R5598	1-215-438-00	METAL	5.1K	1%	1/4W
R5241	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5599	1-249-377-11	CARBON	0.47	5%	1/4W
R5243	1-216-843-11	METAL CHIP	68K	5%	1/10W	R5701	1-260-107-11	CARBON	4.7K	5%	1/2W
R5245	1-216-833-11	METAL CHIP	10K	5%	1/10W						



REF.NO.	PART NO.	DESCRIPTION	VALUI	ES			REF.NO.	PART NO.	DESCRIPTION	VAL	JES	
R5702	1-216-864-11	SHORT CHIP					R6702	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5704	1-216-828-11	METAL CHIP	3.9K	5%	1/10W		R6703	1-218-484-11	METAL CHIP	750	5%	1/10W
R5706	1-216-833-11	METAL CHIP	10K	5%	1/10W		R6704	1-218-484-11	METAL CHIP	750	5%	1/10W
							R6705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5708	1-216-841-11	METAL CHIP	47K	5%	1/10W		R6708	1-216-864-11	SHORT CHIP			
R5709	1-216-813-11	METAL CHIP	220	5%	1/10W							
R5710	1-249-377-11	CARBON	0.47	5%	1/4W		R6809	1-249-405-11	CARBON	100	5%	1/4W
R6402	1-218-870-11	METAL CHIP	9.1K		1/10W		R6810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6405	1-218-823-11	METAL CHIP	100		1/10W		R6811	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
110700	1-210-020-11	WILLIAL OF III	100	0.5070	171000		R6812	1-243-511-71	METAL OXIDE	2.21	5%	3W
R6406	1-245-478-21	METAL	470K	1%	1/4W		R6813	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6407	1-218-875-11	METAL CHIP	15K		1/4VV 1/10W		110013	1-210-033-11	WIL TAL OTH	IUIX	J /0	17 10 00
							D6014	1 210 055 11	METAL CUID	2 21/	0 500/	1/10\\\
R6409	1-218-830-11	METAL CHIP	200		1/10W		R6814	1-218-855-11	METAL CHIP	2.2K		1/10W
R6411	1-249-393-11	CARBON	10	5%	1/4W		R6815	1-216-837-11	METAL CHIP	22K	5% 5%	1/10W
R6412	1-249-393-11	CARBON	10	5%	1/4W		R6816	1-216-846-11	METAL CHIP	120K	5%	1/10W
			4014				R6817	1-216-846-11	METAL CHIP	120K	5%	1/10W
R6413	1-216-833-11	METAL CHIP	10K	5%	1/10W		R6818	1-245-471-21	METAL	240K	1%	1/4W
R6414	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R6417	1-245-315-71	METAL OXIDE	0.1	5%	2W		R6821	1-245-471-21	METAL	240K	1%	1/4W
R6418	1-245-315-71	METAL OXIDE	0.1	5%	2W		R8001	1-219-512-11	METAL	2.2M	5%	1/2W
R6420	1-249-393-11	CARBON	10	5%	1/4W		R8002	1-219-512-11	METAL	2.2M	5%	1/2W
							R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6421	1-202-933-61	FUSIBLE	0.1	10%	1/2W		R8004	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6422	1-249-377-11	CARBON	0.47	5%	1/4W							
R6423	1-216-845-11	METAL CHIP	100K	5%	1/10W		R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6424	1-249-433-11	CARBON	22K	5%	1/4W	<u>^</u>	R8008	1-218-877-11	METAL CHIP	18K	0.50%	1/10W
R6425	1-216-821-11	METAL CHIP	1K	5%	1/10W		R8010	1-218-484-11	METAL CHIP	750	5%	1/10W
							R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6426	1-216-833-11	METAL CHIP	10K	5%	1/10W	$\triangle$	R8012	1-247-828-11	CARBON	750	5%	1/4W
R6427	1-216-857-11	METAL CHIP	1M	5%	1/10W							
R6428	1-216-857-11	METAL CHIP	1M	5%	1/10W		R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6429	1-245-478-21	METAL	470K	1%	1/4W	$\triangle$	R8014	1-218-847-11	METAL CHIP	1K		1/10W
				.,,		$\triangle$	R8015	1-218-855-11	METAL CHIP	2.2K		1/10W
R6500	1-216-833-11	METAL CHIP	10K	5%	1/10W		R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
R6501	1-216-833-11	METAL CHIP	10K	5%	1/10W	<u> </u>	110010	1 247 040 11	ONINDON	0.01	0 /0	1/4**
R6503	1-243-588-71	METAL OXIDE	10K	5%	2W	$\wedge$	R8017	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W
R6504	1-260-298-51	CARBON	3.3	5%	1/2W		R8019	1-218-875-11	METAL CHIP	15K		1/10W
R6505	1-249-389-11	CARBON	4.7	5%	1/4W	Z:\	R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
10000	1-249-309-11	CARBON	4.7	3 /0	1/ <del>1</del> V V							
DOEGO	1 040 400 44	CADDON	220	E0/	4 / 4\ 4 /		R8022	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6590	1-249-409-11	CARBON	220	5%	1/4W		R8024	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6602	1-249-380-11	CARBON	0.82	5%	1/4W		D0005	4 040 004 44	METAL OLUB	414	=0/	4/4014/
R6604	1-249-377-11	CARBON	0.47	5%	1/4W		R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6605	1-249-377-11	CARBON	0.47	5%	1/4W	^	R8026	1-218-853-11	METAL CHIP	1.8K		1/10W
R6610	1-218-857-11	METAL CHIP	2.7K	0.50%	1/10W	<u> </u>	R8027	1-218-891-11	METAL CHIP	68K		1/10W
							R8028	1-218-865-11	METAL CHIP	5.6K		1/10W
R6611	1-218-843-11	METAL CHIP	680		1/10W	<u>/\</u>	R8029	1-218-891-11	METAL CHIP	68K	0.50%	1/10W
	1-249-377-11	CARBON	0.47	5%	1/4W							
R6612		OADDON	0.47	5%	1/2W	$\triangle$	R8030	1-218-895-11	METAL CHIP	100K	0.50%	1/10W
	1-260-288-11	CARBON	0.77									
R6612	1-260-288-11 1-260-288-11	CARBON	0.47	5%	1/2W	$\triangle$	R8031	1-218-895-11	METAL CHIP	100K		1/10W
R6612 R6613						<u>^</u>	R8031 R8032	1-218-895-11 1-216-817-11	METAL CHIP METAL CHIP			
R6612 R6613 R6614	1-260-288-11	CARBON	0.47	5%	1/2W	$\triangle$				100K	0.50%	1/10W

A component identified by this symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



	REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
<u>^</u>	R8036	1-215-419-00	METAL	820	1%	1/4W		R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W
$\triangle$	R8037	1-215-447-00	METAL	12K	1%	1/4W		R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W
$\triangle$	R8038	1-215-447-00	METAL	12K	1%	1/4W		R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W
$\triangle$	R8039	1-215-447-00	METAL	12K	1%	1/4W		R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W
$\triangle$	R8040	1-215-447-00	METAL	820	1%	1/4W		R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W
<u> </u>	110040	1-213-419-00	IVIL IAL	020	1 /0	1/4 4 4						070	
<u>^</u>	R8041	1-216-864-11	SHORT CHIP					R8158	1-216-809-11	METAL CHIP	100	5%	1/10W
$\triangle$	R8043	1-215-447-00	METAL	12K	1%	1/4W		R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W
$\triangle$	R8046	1-218-855-11	METAL CHIP	2.2K		1/10W		R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W
	R8049	1-218-823-11	METAL CHIP	100		1/10W		R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R8050	1-211-979-11	METAL CHIP	27		1/10W	<u>^</u>	R8165	1-218-897-11	METAL CHIP	120K		1/10W
	110000	1-211-373-11	WE TAL OTH	ZI	0.0070	17 10 4 4		R8166	1-216-809-11	METAL CHIP	100	5%	1/10W
	R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W							
<u>^</u>	R8052	1-218-893-11	METAL CHIP	82K		1/10W			VARIABLE RESIS	TOR			
	R8054	1-245-478-21	METAL	470K	1%	1/4W	A E	_					
	R8055	1-245-478-21	METAL	470K	1%	1/4W	∠!\.	RV8002	1-225-627-91	RES, VAR, ADJ, CERM	ET	2K	
	R8056	1-218-870-11	METAL CHIP	9.1K		1/10W							
				•	0.0070				SPARK GAP				
	R8057	1-218-874-11	METAL CHIP	13K	0.50%	1/10W		SG5500	1-519-466-11	GAP, SPARK			
	R8058	1-249-393-11	CARBON	10	5%	1/4W	$\triangle$		1-517-499-21	GAP, SPARK			
	R8059	1-216-864-11	SHORT CHIP							,			
<u>/</u> ì\	R8060	1-218-839-11	METAL CHIP	470	0.50%	1/10W			TRANSFORMER				
	R8061	1-249-393-11	CARBON	10	5%	1/4W							
								T5001	1-437-739-11	TRANSFORMER, FERF	, ,		
	R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W		T5200	1-439-824-21	TRANSFORMER, HOR		UTPUT	
	R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W	^	T5500	1-437-708-11	TRANSFORMER, FERF			
	R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W	<u> </u>	T6400	1-439-821-11	TRANSFORMER, CON		IT)	
	R8069	1-249-425-11	CARBON	4.7K	5%	1/4W	<u> </u>	T8001	1-453-450-11	FBT ASSY NX-6030//M3	3A4		
	R8070	1-245-315-71	METAL OXIDE	0.1	5%	2W							
							16	$\Box$					
<u>^</u>	R8072	1-249-377-11	CARBON	0.47	5%	1/4W		JU					
	R8073	1-216-857-11	METAL CHIP	1M	5%	1/10W							
	R8074	1-216-857-11	METAL CHIP	1M	5%	1/10W		•	* A-1302-352-A	UD BOARD, COMPL			
	R8076	1-249-411-11	CARBON	330	5%	1/4W			4-382-854-51	SCREW (M3X6), P, SW	(+)		
									4-635-966-01	SCREW (HEX)			
À	R8078	1-218-895-11	METAL CHIP	100K	0.50%	1/10W			CADACITOD				
<u> </u>	R8079	1-215-449-00	METAL	15K	1%	1/4W			CAPACITOR				
<u> </u>	R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W		C7001	1-126-395-11	ELECT CHIP	22µF	20%	16V
	R8085	1-219-749-91	METAL	10K	5%	1/2W		C7002	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
	R8086	1-219-750-91	METAL	22K	5%	1/2W		C7004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
								C7005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W		C7006	1-124-779-00	ELECT CHIP	10μF	20%	16V
	R8089	1-216-845-11	METAL CHIP	100K	5%	1/10W							
	R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W		C7007	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
	R8092	1-249-377-11	CARBON	0.47	5%	1/4W	1	C7008	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	R8093	1-216-833-11	METAL CHIP	10K	5%	1/10W	1	C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
								C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	R8096	1-249-413-11	CARBON	470	5%	1/4W	1	C7012	1-124-779-00	ELECT CHIP	10μF	20%	16V
	R8097	1-216-797-11	METAL CHIP	10	5%	1/10W					-		
	R8099	1-218-839-11	METAL CHIP	470		1/10W	1	C7013	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W		C7014	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	R8136	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	l				-		



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C7015	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7060	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7016	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7061	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7017	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
							C7062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7018	1-162-923-11	CERAMIC CHIP	47pF	5%	50V		C7064	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7019	1-162-923-11	CERAMIC CHIP	47pF	5%	50V		C7065	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7020	1-162-923-11	CERAMIC CHIP	47pF	5%	50V		C7066	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7021	1-124-779-00	ELECT CHIP	10μF	20%	16V		C7067	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7022	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V							
							C7068	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7023	1-162-927-11	CERAMIC CHIP	100pF	5%	50V		C7069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7024	1-124-779-00	ELECT CHIP	10μF	20%	16V		C7070	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7025	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7071	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7026	1-124-779-00	ELECT CHIP	10μF	20%	16V		C7078	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7027	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
							C7079	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7028	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7080	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7029	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
C7030	1-162-927-11	CERAMIC CHIP	100pF	5%	50V			CONNECTOR				
C7031	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	*	CN7001	1-816-228-31	CONNECTOR, DVI			
C7032	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	*	CN7005	1-564-520-11	PLUG, CONNECTOR	5P		
						*	CN7006	1-564-524-11	PLUG, CONNECTOR	9P		
C7033	1-124-779-00	ELECT CHIP	10μF	20%	16V	*	CN7007	1-564-519-11	PLUG, CONNECTOR	4P		
C7034	1-164-156-11	CERAMIC CHIP	0.1µF		25V		0111001	1 00 1 0 10 11	1200, 001111201011			
C7035	1-164-156-11	CERAMIC CHIP	0.1µF		25V			DIODE				
C7036	1-164-156-11	CERAMIC CHIP	0.1µF		25V			<u> </u>				
C7037	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D7001	8-719-914-43	DIODE	DAN202k		
07000	4 404 450 44	0504440 0140	0.4.5		051/		D7002	8-719-069-55	DIODE	UDZSTE-		
C7038	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V		D7003	8-719-069-55	DIODE	UDZSTE-		
C7039	1-126-395-11	ELECT CHIP	22µF	20%	16V		D7004	8-719-069-55	DIODE	UDZSTE-		
C7040	1-162-921-11	CERAMIC CHIP	33pF	5%	50V		D7006	8-719-069-55	DIODE	UDZSTE-	-175.6B	
C7041	1-164-156-11	CERAMIC CHIP	0.1µF		25V			FERRITE BEAD				
C7042	1-164-156-11	CERAMIC CHIP	0.1µF		25V		FB7001	1-414-760-21	FERRITE	0μΗ		
C7042	1 164 156 11	CEDAMIC CUID	0.1		25V		FB7002	1-414-760-21	FERRITE	0μΗ		
C7043	1-164-156-11	CERAMIC CHIP	0.1µF		25V 25V		FB7003	1-414-760-21	FERRITE	0μΗ		
C7044 C7045	1-164-156-11 1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1μF 0.1μF		25V 25V		FB7004	1-414-760-21	FERRITE	0μH		
C7045	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V		. 2.00.			٠,٠.٠		
C7040 C7047	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V			<u>FILTER</u>				
07047	1-104-150-11	CENAIVIIC CITIF	υ. τμι		237							
C7048	1-164-156-11	CERAMIC CHIP	0.1µF		25V		FL7001	1-400-087-21	FILTER, EMI REMOVAL	(SMD)		
C7048	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V		FL7002	1-234-560-21	FILTER, LOW PASS			
C7049	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V		FL7003	1-234-559-21	FILTER, LOW PASS			
C7051	1-164-156-11	CERAMIC CHIP	0.1μF		25V		FL7004	1-234-559-21	FILTER, LOW PASS			
C7051	1-164-156-11	CERAMIC CHIP	0.1μF		25V							
01002	1 100 100-11	OLI WINNO OF HI	υ. τμι		201			<u>IC</u>				
C7053	1-164-156-11	CERAMIC CHIP	0.1µF		25V		IC7001	8-759-672-79	IC	M24C02-	WMN6T	(A)
C7056	1-126-395-11	ELECT CHIP	22µF	20%	16V		IC7002	8-749-015-18	IC	PQ07VZ0		. 7
C7057	1-162-921-11	CERAMIC CHIP	33pF	5%	50V		IC7003	8-749-015-18	IC	PQ07VZ0		
C7058	1-164-156-11	CERAMIC CHIP	0.1µF	•	25V		IC7004	6-702-080-01	IC	GM7030-		
C7059	1-164-156-11	CERAMIC CHIP	0.1µF		25V		IC7005	6-802-346-01	IC	ST72631		NLTR
			•									



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
IC7006	8-759-714-06	IC	M24C16-	-WMN6T(	A)	R7057	1-216-864-11	SHORT CHIP			
IC7007	6-702-170-01	IC	PACDN0		,	R7058	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC7008	6-702-170-01	IC	PACDN0			R7059	1-216-864-11	SHORT CHIP			
IC7009	6-702-170-01	IC	PACDN0			R7060	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7062	1-216-864-11	SHORT CHIP			
	JACK						. = . 0 00	5.15.tt 51			
						R7063	1-216-809-11	METAL CHIP	100	5%	1/10W
J7000	1-580-441-51	JACK, PIN	2P			R7064	1-216-809-11	METAL CHIP	100	5%	1/10W
						R7065	1-216-833-11	METAL CHIP	10K	5%	1/10W
	COIL					R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
L7001	1-412-058-11	INDUCTOR	10µH			R7067	1-216-833-11	METAL CHIP	10K	5%	1/10W
L7001	1-412-058-11	INDUCTOR	10μH								
21002	1 112 000 11	INDOOTOR.	ΤΟμίτ			R7068	1-216-801-11	METAL CHIP	22	5%	1/10W
	RESISTOR					R7069	1-216-801-11	METAL CHIP	22	5%	1/10W
	KEOIOTOK					R7071	1-216-803-11	METAL CHIP	33	5%	1/10W
R7003	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7072	1-216-803-11	METAL CHIP	33	5%	1/10W
R7004	1-218-852-11	METAL CHIP	1.6K	0.50%	1/10W	R7075	1-218-676-11	METAL CHIP	220		1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R7012	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7013	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7087	1-218-680-11	METAL CHIP	330		1/10W
						R7096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7014	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7097	1-216-809-11	METAL CHIP	100	5%	1/10W
R7015	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7098	1-216-809-11	METAL CHIP	100	5%	1/10W
R7016	1-216-833-11	METAL CHIP	10K	5%	1/10W					• 70	
R7020	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7099	1-216-809-11	METAL CHIP	100	5%	1/10W
R7021	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7101	1-216-864-11	SHORT CHIP	100	070	
						R7106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7023	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7108	1-216-805-11	METAL CHIP	47	5%	1/10W
R7024	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7109	1-216-805-11	METAL CHIP	47	5%	1/10W
R7025	1-216-833-11	METAL CHIP	10K	5%	1/10W	117100	1 210 000 11	ME I/IE Of III	.,	070	171011
R7026	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7111	1-216-864-11	SHORT CHIP			
R7029	1-218-692-11	METAL CHIP	1K		1/10W	R7112	1-216-864-11	SHORT CHIP			
						R7113	1-216-864-11	SHORT CHIP			
R7030	1-216-864-11	SHORT CHIP				R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7032	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R7115	1-218-700-11	METAL CHIP	2.2K		1/10W
R7034	1-218-676-11	METAL CHIP	220		1/10W	10/110	121070011	WE IAE OF III	2.21	0.0070	1710
R7036	1-218-704-11	METAL CHIP	3.3K		1/10W	R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7037	1-218-676-11	METAL CHIP	220		1/10W	R7117	1-218-668-11	METAL CHIP	100		1/10W
						R7119	1-218-668-11	METAL CHIP	100		1/10W
R7041	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7121	1-216-864-11	SHORT CHIP	100	0.5070	171044
R7043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	10/12/	1-210-004-11	OHORT OHII			
R7044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7045	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7124	1-218-680-11	METAL CHIP	330		1/10W
R7047	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7124 R7125	1-218-700-11	METAL CHIP	2.2K		1/10W
•				• 70					2.21	0.50 /6	1/1000
R7050	1-216-864-11	SHORT CHIP				R7126	1-216-864-11	SHORT CHIP			
R7051	1-216-864-11	SHORT CHIP					CDVCTAI				
R7053	1-216-833-11	METAL CHIP	10K	5%	1/10W		CRYSTAL				
R7054	1-216-833-11	METAL CHIP	10K	5%	1/10W	X7001	1-795-568-21	VIBRATOR, CRYSTAL			
R7056	1-216-833-11	METAL CHIP	10K	5%	1/10W	X7002	1-795-567-21	VIBRATOR, CRYSTAL			
111000	1 210 000-11	ME I/ LE OI III	IVIX	J /0	17 1011						



REF.NO.	PART NO.	DESCRIPTION	VALUE	s		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	ī					C3129	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
$\mathbf{BIV}$						C3130	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	■					C3131	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		lexity of this board,				C3132	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	•	s is not recommende				C3133	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		replacement is the p	referred re	pair m	ethod.				•		
	Data is provided	for reference only.				C3134	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
						C3135	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	* A-1302-353-A	BM BOARD, COM	PLETE			C3136	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
						C3137	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	CAPACITOR					C3138	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3032	1-164-156-11	CERAMIC CHIP	0.1µF	25V					•		
C3035	1-117-681-11	ELECT CHIP	100µF	20%	16V	C3139	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3036	1-164-156-11	CERAMIC CHIP	0.1µF	25V		C3140	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3037	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3141	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3038	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3142	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
00000	1 102 070 11	OLIV WIIO OI III	0.0 τμι	1070	201	C3143	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3039	1-164-156-11	CERAMIC CHIP	0.1µF	25V				02.00 0	0.0 · p.		
C3040	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3144	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3100	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C3145	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3100	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C3146	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3101	1-124-779-00	ELECT CHIP	0.00 τμι 10μF	20%	16V	C3147	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
03102	1-124-119-00	LLLOT OTIII	ισμι	20 /0	100	C3148	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3104	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	00140	1 102 370 11	OLIV WIIO OTIII	0.0 τμι	10 /0	201
C3104	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V 25V	C3149	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3105	1-162-970-11	CERAMIC CHIP	0.01µF 0.01µF	10%	25V 25V	C3150	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3100		CERAMIC CHIP	•	10%	25V 25V	C3151	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
	1-162-970-11		0.01µF		25V 25V	C3151	1-162-970-11	CERAMIC CHIP	0.01μΓ 0.01μF	10%	25V 25V
C3108	1-162-970-11	CERAMIC CHIP	0.01µF	10%	237	C3153	1-102-970-11	CERAMIC CHIP	0.01μΓ 0.1μF	10%	16V
00400	4 400 070 44	CEDAMIC CUID	0.04	400/	25/	03133	1-107-020-11	OLIVAIVIIO OTIII	υ. ιμι	10 /0	10 V
C3109	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3154	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V
C3110	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3154	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3111	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3155	1-107-826-11	CERAMIC CHIP		10%	16V
C3112	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V				0.1µF		6.3V
C3113	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3157	1-137-710-11	CERAMIC CHIP	10μF	20% 10%	
00444	4 404 450 44	0504440 0140	0.4.5		05) (	C3158	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3114	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C24E0	1 107 006 11	CEDAMIC CUID	0.4	100/	16\/
C3115	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V	C3159	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3116	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3160	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3117	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3161	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3118	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3162	1-128-357-11	ELECT CHIP	10μF	20%	16V
00440	4 400 070 44	0504440 0140	2.24 5	400/	05) (	C3163	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3119	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	00404	4 404 450 44	OEDAMIO OLUB	0.4 5		05)/
C3120	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3164	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3121	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3165	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3122	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3166	1-164-156-11	CERAMIC CHIP	0.1µF	400/	25V
C3123	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3167	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
						C3168	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3124	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V			EL E.O.T. 0			0.617
C3125	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3169	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3126	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3170	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3127	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3171	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3128	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3172	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
						•					



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO	. PART NO.	DESCRIPTION	VALU	ES	
C3173	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3239	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3174	1-124-778-00	ELECT CHIP	22µF	20%	6.3V	C3240	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3178	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3241	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3179	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3242	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3180	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3243	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
			·						•		
C3181	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3244	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3182	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3245	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3183	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3246	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3184	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3247	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3185	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3248	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			·						·		
C3186	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3250	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3188	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3251	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3189	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C3252	1-128-996-11	ELECT CHIP	4.7μF	20%	50V
C3201	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3253	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3202	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3254	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3203	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3255	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3204	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3256	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3205	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3304	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3206	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3305	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3207	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3306	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
									- · · · · · · · · · · · · · · · · · · ·		
C3208	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3307	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3209	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3308	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3210	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3309	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3211	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3310	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3212	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3311	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
**									- · · · · · · · · · · · · · · · · · · ·		
C3213	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3312	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3214	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3313	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3215	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3316	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3216	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3318	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3217	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3319	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3218	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3320	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3219	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3321	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3222	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3322	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3224	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3323	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3225	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3325	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3227	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3326	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3229	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3328	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3231	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3329	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3232	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3330	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3233	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3332	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	• • • •	<b>2 3</b>	/ Pr	/ •				2 3	** · · ·   P**	/ •	
C3235	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3333	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3236	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3334	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3237	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3335	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3238	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3336	1-128-994-21	ELECT CHIP	47µF	20%	10V
			•			I			•		



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C3337	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3387	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3338	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3388	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			•				C3389	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3339	1-126-204-11	ELECT CHIP	47μF	20%	16V					·		
C3340	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3390	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C3341	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3391	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3342	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3392	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3343	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3393	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
			•				C3394	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3344	1-162-916-11	CERAMIC CHIP	12pF	5%	50V							
C3345	1-162-916-11	CERAMIC CHIP	12pF	5%	50V		C3395	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3346	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3396	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3347	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3397	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3348	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3398	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
							C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3351	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V					- 1		
C3352	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3353	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3455	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3354	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3355	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3457	1-124-779-00	ELECT CHIP	10μF	20%	16V
00000	1 101 020 11	02.0 111110 01111	υ μ.	1070	101		C3458	1-164-156-11	CERAMIC CHIP	0.1µF	2070	25V
C3356	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		00100	1 101 100 11	OLI WINIO OF III	υ μ.		201
C3357	1-164-156-11	CERAMIC CHIP	0.1μF	1070	25V		C3459	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3358	1-126-206-11	ELECT CHIP	0.1μ1 100μF	20%	6.3V		C3460	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C3360	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V		C3461	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3361	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V		C3462	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
00001	1-102-970-11	OLIVAIVIIO OLIII	υ.υ τμι	10 /0	257		C3463	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3362	1-162-923-11	CERAMIC CHIP	47pF	5%	50V		00400	1-102-370-11	CLIVAINIC OF III	υ.υ τμι	10 /0	231
C3363	1-162-970-11	CERAMIC CHIP	47ρι 0.01μF	10%	25V		C3465	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C3366	1-162-970-11	CERAMIC CHIP	0.01μΓ 0.01μF	10%	25V		C3466	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3367	1-164-156-11	CERAMIC CHIP	0.01μF	10 /0	25V 25V		03400	1-102-370-11	CLIVAINIC OF III	υ.υ τμι	10 /0	231
C3368	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V			CONNECTOR				
03300	1-104-130-11	CERAIVIIC CHIF	υ. τμι		237			CONNECTOR				
C3369	1-124-779-00	ELECT CHIP	10µF	20%	16V	*	CN3001	1-816-448-11	CONNECTOR, BOARI	TO BOARI	D 50P	
C3370	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V							
C3371				10%	25V 25V			DIODE				
	1-162-970-11	CERAMIC CHIP CERAMIC CHIP	0.01µF				50101	. =	21022			
C3372 C3373	1-162-970-11	CERAMIC CHIP	0.01µF 0.01µF	10% 10%	25V		D3101	8-719-066-11	DIODE	1PS184-		
C33/3	1-162-970-11	CERAIVIIC CHIP	υ.υ ιμΓ	1070	25V		D3102	8-719-066-10	DIODE	1PS181-		
C2274	1 160 070 11	CEDAMIC CLID	0.04	100/	251/		D3205	8-719-066-11	DIODE	1PS184-		
C3374	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		D3206	8-719-066-10	DIODE	1PS181-		
C3375	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		D3301	8-719-066-11	DIODE	1PS184-		
C3376	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		D3302	8-719-066-10	DIODE	1PS181-	115	
C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V							
C3200	1 164 156 11	CEDAMIC CUID	∩ 1⊏		25\/			FERRITE BEAD				
C3380	1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1µF		25V		FB3101	1-414-234-22	FERRITE	0μΗ		
C3381	1-164-156-11		0.1µF	200/	25V		FB3203	1-469-110-21	FERRITE	0μH		
C3382	1-126-204-11	ELECT CHIP	47µF	20%	16V		FB3204	1-216-864-11	SHORT CHIP	υμιι		
C3383	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		FB3302	1-216-864-11	SHORT CHIP			
C3384	1-164-156-11	CERAMIC CHIP	0.1µF		25V		FB3303	1-216-864-11	SHORT CHIP			
00005	4 400 005 44	ELECT CLUB	47	200/	0.01/		ו הייים ו	1-210-004-11	GHOINI OHIII			
C3385	1-126-205-11	ELECT CHIP	47µF	20%	6.3V							
C3386	1-126-205-11	ELECT CHIP	47µF	20%	6.3V							



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
	<u>FILTER</u>				COIL		
FL3000	1-234-177-21	FERRITE	0μΗ	L3101	1-412-029-11	INDUCTOR	10µH
FL3001	1-234-177-21	FERRITE	0μH	L3102	1-469-555-21	INDUCTOR	10µH
FL3003	1-234-177-21	FERRITE	OμH	L3103	1-412-029-11	INDUCTOR	10µH
FL3100	1-234-677-21	FILTER, EMI	<b>Op</b> 11	L3104	1-412-026-11	INDUCTOR	1μH
FL3101	1-234-560-21	FILTER, LOW PASS		L3105	1-412-026-11	INDUCTOR	1μH
1 20101	1-234-300-21	FILTER, LOW FACO		25105	1-412-020-11	INDOOTOR	ιμιι
FL3102	1-234-559-21	FILTER, LOW PASS		L3106	1-412-026-11	INDUCTOR	1µH
FL3103	1-234-559-21	FILTER, LOW PASS		L3107	1-412-029-11	INDUCTOR	10μΗ
FL3104	1-234-177-21	FERRITE	0μΗ	L3201	1-412-026-11	INDUCTOR	1μΗ
FL3105	1-234-177-21	FERRITE	OμH	L3202	1-469-561-21	INDUCTOR	100µH
FL3106	1-234-177-21	FERRITE	OμH	L3203	1-469-561-21	INDUCTOR	100µH
. 20.00			Ψ				
FL3107	1-234-177-21	FERRITE	0μΗ	L3204	1-412-026-11	INDUCTOR	1μH
FL3200	1-234-177-21	FERRITE	0μΗ	L3205	1-412-026-11	INDUCTOR	1μΗ
FL3201	1-234-177-21	FERRITE	0μH	L3302	1-469-561-21	INDUCTOR	100µH
FL3301	1-781-923-21	FILTER, LOW PASS (SI	MD)	L3303	1-469-561-21	INDUCTOR	100µH
FL3302	1-234-177-21	FERRITE	νμΗ	L3304	1-469-555-21	INDUCTOR	10µH
			,				,
FL3304	1-234-177-21	FERRITE	0μΗ	L3305	1-469-555-21	INDUCTOR	10μH
FL3305	1-234-177-21	FERRITE	0μH	L3306	1-469-555-21	INDUCTOR	10μH
FL3306	1-234-177-21	FERRITE	0μH	L3307	1-469-555-21	INDUCTOR	10μH
			'	L3308	1-412-029-11	INDUCTOR	10µH
	<u>IC</u>			L3311	1-469-555-21	INDUCTOR	10µH
							'
IC3101	8-752-425-02	IC	CXD3802BQ	L3312	1-412-026-11	INDUCTOR	1μΗ
IC3102	6-703-430-01	IC	MT48LC2M32B2TG-6-Y94W	L3313	1-412-029-11	INDUCTOR	10μΗ
IC3103	6-703-772-11	IC	LMH6658MMX/NOPB	L3314	1-412-026-11	INDUCTOR	1μΗ
IC3104	6-703-772-11	IC	LMH6658MMX/NOPB	L3315	1-412-026-11	INDUCTOR	1μΗ
IC3105	8-759-712-65	IC	PQ070XZ01ZP	L3316	1-469-555-21	INDUCTOR	10μΗ
							,
IC3106	8-759-712-65	IC	PQ070XZ01ZP	L3317	1-412-026-11	INDUCTOR	1μΗ
IC3201	8-752-422-52	IC	CXD2097BQ	L3318	1-469-555-21	INDUCTOR	10μΗ
IC3202	6-703-791-01	IC	MSM56V16160F-8T3FM1				
IC3204	8-759-669-78	IC	TLC2933IPWR-12		TRANSISTOR		
IC3205	8-759-712-65	IC	PQ070XZ01ZP				
				Q3101	8-729-102-07	TRANSISTOR	2SC2223-F13
IC3301	8-759-672-57	IC	CXD9509AQ	Q3102	8-729-122-63	TRANSISTOR	2SA1226-E4
IC3302	6-703-430-01	IC	MT48LC2M32B2TG-6-Y94W	Q3103	8-729-102-07	TRANSISTOR	2SC2223-F13
IC3303	8-752-409-20	IC	CXD2309AQ	Q3104	8-729-122-63	TRANSISTOR	2SA1226-E4
IC3305	8-759-669-75	IC	TLC2932IPWR	Q3105	8-729-102-07	TRANSISTOR	2SC2223-F13
IC3306	8-759-485-79	IC	TC7SET08FU(TE85L)				
IC3307	8-759-485-79	IC	TC7SET08FU(TE85L)	Q3106	8-729-122-63	TRANSISTOR	2SA1226-E4
IC3308	8-759-485-79	IC	TC7SET08FU(TE85L)	Q3107	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
				Q3108	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
IC3309	8-759-082-57	IC	TC7W04FU	Q3109	8-729-010-25	TRANSISTOR	MSD601-RT1
IC3310	8-759-712-65	IC	PQ070XZ01ZP	Q3110	8-729-102-07	TRANSISTOR	2SC2223-F13
IC3311	8-759-833-72	IC	NJM2870F25-TE2				
				Q3111	8-729-102-07	TRANSISTOR	2SC2223-F13
				Q3112	8-729-102-07	TRANSISTOR	2SC2223-F13
				Q3113	8-729-010-25	TRANSISTOR	MSD601-RT1



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO	D. PART NO.	DESCRIPTION	VAL	UES	
Q3201	8-729-028-28	TRANSISTOR	2SK203	36(TE85L)		R3051	1-543-949-22	FERRITE	0μH		
Q3202	8-729-028-28	TRANSISTOR	2SK203	36(TE85L)		R3052	1-216-805-11	METAL CHIP	47	5%	1/10W
						R3053	1-216-805-11	METAL CHIP	47	5%	1/10W
Q3203	8-729-010-25	TRANSISTOR	MSD60	1-RT1							
Q3204	8-729-010-05	TRANSISTOR	MSB70	9-RT1		R3054	1-216-805-11	METAL CHIP	47	5%	1/10W
Q3301	8-729-010-25	TRANSISTOR	MSD60	1-RT1		R3055	1-543-949-22	FERRITE	0μH		
Q3302	8-729-010-25	TRANSISTOR	MSD60	1-RT1		R3056	1-543-949-22	FERRITE	0μH		
Q3304	8-729-010-25	TRANSISTOR	MSD60	1-RT1		R3101	1-216-801-11	METAL CHIP	22	5%	1/10W
						R3102	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q3305	8-729-010-25	TRANSISTOR	MSD60	1-RT1							
Q3306	8-729-028-28	TRANSISTOR	2SK203	36(TE85L)		R3103	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
Q3307	8-729-028-28	TRANSISTOR		36(TE85L)		R3104	1-216-805-11	METAL CHIP	47	5%	1/10W
Q3308	8-729-010-25	TRANSISTOR	MSD60			R3105	1-218-830-11	METAL CHIP	200	0.50%	1/10W
Q3309	8-729-010-05	TRANSISTOR	MSB70	9-RT1		R3106	1-216-809-11	METAL CHIP	100	5%	1/10W
						R3107	1-216-820-11	METAL CHIP	820	5%	1/10W
Q3310	8-729-010-25	TRANSISTOR	MSD60	1-RT1							
Q3311	8-729-010-05	TRANSISTOR	MSB70	9-RT1		R3108	1-218-830-11	METAL CHIP	200	0.50%	1/10W
Q3312	8-729-010-25	TRANSISTOR	MSD60	1-RT1		R3109	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
Q3313	8-729-010-05	TRANSISTOR	MSB70			R3110	1-216-805-11	METAL CHIP	47	5%	1/10W
Q3314	8-729-102-07	TRANSISTOR	2SC222			R3111	1-218-834-11	METAL CHIP	300		1/10W
						R3112	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3315	8-729-102-07	TRANSISTOR	2SC222	23-F13							
Q3316	8-729-102-07	TRANSISTOR	2SC222			R3113	1-216-820-11	METAL CHIP	820	5%	1/10W
Q3317	8-729-122-63	TRANSISTOR	2SA122			R3114	1-218-834-11	METAL CHIP	300		1/10W
Q3318	8-729-122-63	TRANSISTOR	2SA122			R3115	1-216-805-11	METAL CHIP	47	5%	1/10W
Q3319	8-729-122-63	TRANSISTOR	2SA122			R3116	1-216-805-11	METAL CHIP	47	5%	1/10W
200.10	0 . 20 . 22 00		-0,			R3117	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	RESISTOR										
R3023	1-216-864-11	SHORT CHIP				R3118	1-216-805-11	METAL CHIP	47	5%	1/10W
R3024	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3119	1-216-805-11	METAL CHIP	47	5%	1/10W
R3032		SHORT CHIP	J.JN	370	1/1000	R3120	1-218-834-11	METAL CHIP	300	0.50%	1/10W
R3034	1-216-864-11	SHORT CHIP				R3121	1-216-809-11	METAL CHIP	100	5%	1/10W
R3035	1-216-864-11		O.,LI			R3122	1-216-820-11	METAL CHIP	820	5%	1/10W
KJUJJ	1-543-949-22	FERRITE	0µH								
R3036	1 542 040 22	FERRITE	0µH			R3123	1-218-834-11	METAL CHIP	300	0.50%	1/10W
R3037	1-543-949-22 1-543-949-22	FERRITE				R3124	1-216-864-11	SHORT CHIP			
R3037	1-216-864-11	SHORT CHIP	0μΗ			R3125	1-216-864-11	SHORT CHIP			
R3039						R3129	1-216-805-11	METAL CHIP	47	5%	1/10W
	1-216-864-11	SHORT CHIP				R3130	1-216-805-11	METAL CHIP	47	5%	1/10W
R3040	1-216-864-11	SHORT CHIP									
D2044	1 542 040 22	FEDDITE	O.,LI			R3131	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3041 R3042	1-543-949-22	FERRITE	0μH			R3132	1-216-833-11	METAL CHIP	10K	5%	1/10W
	1-543-949-22	FERRITE	0μH	E0/	4/40/4/	R3133	1-216-809-11	METAL CHIP	100	5%	1/10W
R3043	1-216-805-11	METAL CHIP	47	5%	1/10W	R3134	1-216-809-11	METAL CHIP	100	5%	1/10W
R3044	1-216-805-11	METAL CHIP	47	5%	1/10W	R3135	1-543-949-22	FERRITE	0μΗ		
R3045	1-216-805-11	METAL CHIP	47	5%	1/10W						
D0040	4 540 040 00	FEDDITE	011			R3136	1-543-949-22	FERRITE	0μΗ		
R3046	1-543-949-22	FERRITE	0μH			R3137	1-216-864-11	SHORT CHIP			
R3047	1-543-949-22	FERRITE	0μH			R3138	1-216-864-11	SHORT CHIP			
R3048	1-543-949-22	FERRITE	0μH			R3141	1-218-839-11	METAL CHIP	470	0.50%	1/10W
R3049	1-543-949-22	FERRITE	0μH			R3142	1-218-839-11	METAL CHIP	470	0.50%	1/10W
R3050	1-543-949-22	FERRITE	0μΗ								
						1					



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R3143	1-218-839-11	METAL CHIP	470	0.50%	1/10W	R3221	1-216-864-11	SHORT CHIP			
R3144	1-218-841-11	METAL CHIP	560	0.50%	1/10W	R3236	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3145	1-218-841-11	METAL CHIP	560		1/10W	R3237	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3146	1-218-841-11	METAL CHIP	560		1/10W	R3239	1-216-864-11	SHORT CHIP			
							. = . • • • • • •				
R3147	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R3240	1-216-809-11	METAL CHIP	100	5%	1/10W
R3148	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R3241	1-216-809-11	METAL CHIP	100	5%	1/10W
R3150	1-218-861-11	METAL CHIP	3.9K	0.50%	1/10W	R3244	1-216-864-11	SHORT CHIP			
R3151	1-218-861-11	METAL CHIP	3.9K	0.50%	1/10W	R3246	1-216-864-11	SHORT CHIP			
R3152	1-218-861-11	METAL CHIP	3.9K	0.50%	1/10W	R3247	1-216-864-11	SHORT CHIP			
R3153	1-211-977-11	METAL CHIP	22		1/10W	R3248	1-216-864-11	SHORT CHIP			
R3154	1-216-809-11	METAL CHIP	100	5%	1/10W	R3249	1-216-864-11	SHORT CHIP			
R3155	1-216-809-11	METAL CHIP	100	5%	1/10W	R3251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3156	1-216-847-11	METAL CHIP	150K	5%	1/10W	R3252	1-216-813-11	METAL CHIP	220	5%	1/10W
R3158	1-216-809-11	METAL CHIP	100	5%	1/10W	R3253	1-216-864-11	SHORT CHIP			
R3159	1-216-819-11	METAL CHIP	680	5%	1/10W	R3255	1-216-801-11	METAL CHIP	22	5%	1/10W
R3160	1-216-819-11	METAL CHIP	680	5%	1/10W	R3256	1-218-860-11	METAL CHIP	3.6K		1/10W
R3161	1-216-819-11	METAL CHIP	680	5%	1/10W	R3257	1-216-809-11	METAL CHIP	100	5%	1/10W
R3162	1-216-864-11	SHORT CHIP	000	070	171000	R3258	1-218-831-11	METAL CHIP	220		1/10W
R3163	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W	R3259	1-218-859-11	METAL CHIP	3.3K		1/10W
110100	1210 001 11	WEI/IE OTH	1.010	0.0070	171011	110200	1210 000 11	ME I/IE OI III	0.010	0.0070	171011
R3164	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W	R3260	1-218-831-11	METAL CHIP	220	0.50%	1/10W
R3165	1-216-864-11	SHORT CHIP				R3261	1-218-831-11	METAL CHIP	220	0.50%	1/10W
R3170	1-216-801-11	METAL CHIP	22	5%	1/10W	R3262	1-216-809-11	METAL CHIP	100	5%	1/10W
R3171	1-216-864-11	SHORT CHIP				R3264	1-216-815-11	METAL CHIP	330	5%	1/10W
R3172	1-216-864-11	SHORT CHIP				R3265	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3176	1-216-864-11	SHORT CHIP				R3266	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3178	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3267	1-216-813-11	METAL CHIP	220	5%	1/10W
R3179	1-218-847-11	METAL CHIP	1K		1/10W	R3268	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3181	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3269	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3182	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3270	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
110102	1210 000 11	WEI/IE OTH	1011	070	171011	110270	1 210 021 11	ME I/IE OI III	0.010	070	171011
R3183	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3271	1-218-842-11	METAL CHIP	620	0.50%	1/10W
R3184	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3272	1-216-805-11	METAL CHIP	47	5%	1/10W
R3185	1-218-873-11	METAL CHIP	12K	0.50%	1/10W	R3273	1-216-814-11	METAL CHIP	270	5%	1/10W
R3186	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3276	1-543-949-22	FERRITE	0μH		
R3190	1-216-864-11	SHORT CHIP				R3277	1-543-949-22	FERRITE	0μΗ		
R3192	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3280	1-218-838-11	METAL CHIP	430	በ 50%	1/10W
R3193	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3281	1-218-847-11	METAL CHIP	1K		1/10W
R3194	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3282	1-218-873-11	METAL CHIP	12K		1/10W
R3195	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3302	1-216-801-11	METAL CHIP	22	5%	1/10W
R3196	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3303	1-216-821-11	METAL CHIP	1K	5%	1/10W
10100	1 = 10 000-11	IIIE II IE OI III	IVIN	J /U	17 1011	110000	1 210 021-11	ME I/ LE OI III	ш	370	17 10 11
R3197	1-216-864-11	SHORT CHIP				R3304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3198	1-216-864-11	SHORT CHIP				R3305	1-218-859-11	METAL CHIP	3.3K	0.50%	1/10W
R3199	1-216-855-11	METAL CHIP	680K	5%	1/10W	R3306	1-216-801-11	METAL CHIP	22	5%	1/10W
R3201	1-216-801-11	METAL CHIP	22	5%	1/10W	R3307	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3219	1-216-864-11	SHORT CHIP				R3308	1-216-821-11	METAL CHIP	1K	5%	1/10W
						I					



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R3310	1-216-801-11	METAL CHIP	22	5%	1/10W	R3368	1-216-864-11	SHORT CHIP			
R3311	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3369	1-216-864-11	SHORT CHIP			
R3312	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3370	1-216-864-11	SHORT CHIP			
R3315	1-216-809-11	METAL CHIP	100	5%	1/10W	R3371	1-216-809-11	METAL CHIP	100	5%	1/10W
						R3374	1-216-817-11	METAL CHIP	470	5%	1/10W
R3316	1-216-801-11	METAL CHIP	22	5%	1/10W						
R3317	1-216-801-11	METAL CHIP	22	5%	1/10W	R3375	1-543-949-22	FERRITE	0µH		
R3318	1-216-813-11	METAL CHIP	220	5%	1/10W	R3376	1-543-949-22	FERRITE	0μΗ		
R3320	1-216-864-11	SHORT CHIP				R3377	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R3321	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3378	1-218-847-11	METAL CHIP	1K		1/10W
						R3383	1-216-805-11	METAL CHIP	47	5%	1/10W
R3322	1-216-805-11	METAL CHIP	47	5%	1/10W						
R3323	1-216-815-11	METAL CHIP	330	5%	1/10W	R3384	1-211-987-11	METAL CHIP	56	0.50%	1/10W
R3325	1-216-809-11	METAL CHIP	100	5%	1/10W	R3385	1-211-985-11	METAL CHIP	47		1/10W
R3329	1-216-864-11	SHORT CHIP		0,0		R3386	1-211-987-11	METAL CHIP	56		1/10W
R3330	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3387	1-211-985-11	METAL CHIP	47		1/10W
110000	1210 021 11	III I I I COI III		070		R3388	1-216-864-11	SHORT CHIP		0.0070	
R3331	1-216-819-11	METAL CHIP	680	5%	1/10W	1,0000	1210 001 11	oriorti oriii			
R3333	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3389	1-216-864-11	SHORT CHIP			
R3334	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3391	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3335	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3392	1-216-818-11	METAL CHIP	560	5%	1/10W
R3336	1-216-855-11	METAL CHIP	680K	5%	1/10W	R3393	1-216-809-11	METAL CHIP	100	5%	1/10W
110000	1-210-033-11	WILLIAL OTTI	00011	J /0	1/1000	R3395	1-216-817-11	METAL CHIP	470	5%	1/10W
R3337	1-216-801-11	METAL CHIP	22	5%	1/10W	1.0090	1-210-017-11	WIL TAL CITII	410	J /0	17 10 00
R3340	1-216-864-11	SHORT CHIP	22	J /0	1/1000	R3396	1-216-864-11	SHORT CHIP			
R3341	1-216-864-11	SHORT CHIP				R3401	1-216-805-11	METAL CHIP	47	5%	1/10W
R3342	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3401	1-216-801-11	METAL CHIP	22	5%	1/10W
R3343		METAL CHIP	1K	5% 5%	1/10W	R3402	1-216-821-11	METAL CHIP	1K	5%	1/10W
K3343	1-216-821-11	METAL CHIP	II	370	1/1000	R3403 R3404	1-216-809-11	METAL CHIP	100	5% 5%	1/10W
R3344	1-216-821-11	METAL CHIP	1K	5%	1/10W	K3404	1-210-009-11	WE TAL CHIP	100	370	1/1000
R3345	1-216-821-11	METAL CHIP	1K	5% 5%	1/10W	R3405	1-216-809-11	METAL CHIP	100	5%	1/10W
			1K						22		1/10W
R3346	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3406	1-216-801-11	METAL CHIP		5%	
R3347	1-216-821-11	METAL CHIP		5%	1/10W	R3407	1-216-801-11	METAL CHIP	22	5%	1/10W
R3348	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3408	1-216-801-11	METAL CHIP	22	5%	1/10W
D0040	4 040 004 44	METAL OLUD	417	<b>F</b> 0/	4/40/4/	R3409	1-216-809-11	METAL CHIP	100	5%	1/10W
R3349	1-216-821-11	METAL CHIP	1K	5%	1/10W	D0440	4 040 055 44	METAL OLUB	0.01/	0.500/	4/40\4/
R3350	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3410	1-218-855-11	METAL CHIP	2.2K		1/10W
R3351	1-216-809-11	METAL CHIP	100	5%	1/10W	R3411	1-218-859-11	METAL CHIP	3.3K		1/10W
R3353	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3412	1-216-817-11	METAL CHIP	470	5% 5%	1/10W
R3354	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3413	1-216-801-11	METAL CHIP	22	5%	1/10W
Doore	4 040 004 44	METAL OLUD	417	<b>F</b> 0/	4/40/4/	R3414	1-211-987-11	METAL CHIP	56	0.50%	1/10W
R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W	D0445	4 044 005 44	METAL OLUB	47	0.500/	4/40/4/
R3356	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3415	1-211-985-11	METAL CHIP	47		1/10W
R3357	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3416	1-216-809-11	METAL CHIP	100	5%	1/10W
R3358	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3417	1-216-817-11	METAL CHIP	470	5%	1/10W
R3359	1-216-809-11	METAL CHIP	100	5%	1/10W	R3418	1-216-801-11	METAL CHIP	22	5%	1/10W
						R3419	1-216-809-11	METAL CHIP	100	5%	1/10W
R3360	1-216-805-11	METAL CHIP	47	5%	1/10W						
R3362	1-216-817-11	METAL CHIP	470	5%	1/10W	R3420	1-218-823-11	METAL CHIP	100		1/10W
R3363	1-216-809-11	METAL CHIP	100	5%	1/10W	R3421	1-218-823-11	METAL CHIP	100		1/10W
R3367	1-216-805-11	METAL CHIP	47	5%	1/10W	R3422	1-218-823-11	METAL CHIP	100		1/10W
						R3425	1-216-817-11	METAL CHIP	470	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R3426	1-216-801-11	METAL CHIP 2	22 5	5%	1/10W	RB3116	1-236-908-11	NETWORK RESISTOR(	CHIP)	10K	
R3448	1-216-864-11	SHORT CHIP				RB3117	1-236-908-11	NETWORK RESISTOR(	CHIP)	10K	
R3450	1-211-969-11	METAL CHIP 1	10 (	0.50%	1/10W	RB3201	1-239-409-11	NETWORK RESISTOR(	CHIP)	47	
R3451	1-218-825-11	METAL CHIP 1	120 (	0.50%	1/10W	RB3202	1-239-409-11	NETWORK RESISTOR(	CHIP)	47	
R3452	1-218-833-11				1/10W	RB3203	1-239-409-11	NETWORK RESISTOR(	,	47	
								,	,		
R3453	1-211-973-11	METAL CHIP 1	15 (	0.50%	1/10W	RB3204	1-239-409-11	NETWORK RESISTOR(	CHIP)	47	
R3454	1-218-825-11				1/10W	RB3205	1-233-576-11	RES, CHIP NETWORK	•		
R3455	1-218-833-11				1/10W	RB3206	1-233-576-11	RES, CHIP NETWORK			
R3456	1-211-977-11				1/10W	RB3207	1-233-576-11	RES, CHIP NETWORK			
R3457	1-218-825-11				1/10W	RB3208	1-233-576-11	RES, CHIP NETWORK			
								,			
R3458	1-218-833-11	METAL CHIP 2	270 (	0.50%	1/10W	RB3209	1-233-576-11	RES, CHIP NETWORK	100		
R3459	1-211-977-11				1/10W	RB3210	1-233-576-11	RES, CHIP NETWORK			
R3460	1-218-825-11				1/10W	RB3303	1-233-576-11	RES, CHIP NETWORK			
R3461	1-218-833-11				1/10W	RB3304	1-233-576-11	RES, CHIP NETWORK			
R3462	1-218-825-11				1/10W	RB3305	1-233-576-11	RES, CHIP NETWORK			
110102	1210 020 11	ME II LE OTTI		3.0070		1120000	1 200 010 11	razo, ormi razi vi orac	100		
R3463	1-218-833-11	METAL CHIP 2	270 (	0.50%	1/10W	RB3306	1-233-576-11	RES, CHIP NETWORK	100		
R3464	1-218-825-11				1/10W	RB3309	1-233-576-11	RES, CHIP NETWORK			
R3465	1-218-833-11				1/10W	RB3310	1-233-576-11	RES, CHIP NETWORK			
R3466	1-218-833-11				1/10W	RB3311	1-233-576-11	RES, CHIP NETWORK			
R3467	1-218-833-11				1/10W	RB3312	1-233-576-11	RES, CHIP NETWORK			
110101	1210 000 11	MEI/IE OI III		3.00 70	171011	11,00012	1 200 010 11	TLO, OTHE THE TWO THE	100		
R3468	1-218-833-11	METAL CHIP 2	270 (	50%	1/10W	RB3313	1-233-813-11	RES, NETWORK 150	(3216)		
R3469	1-218-844-11				1/10W	RB3314	1-233-813-11	RES, NETWORK 150	(3216)		
R3470	1-216-821-11			5%	1/10W	RB3315	1-233-813-11	RES, NETWORK 150	(3216)		
R3471	1-216-864-11	SHORT CHIP		<b>3</b> 70	171011	RB3316	1-233-813-11	RES, NETWORK 150	(3216)		
R3472	1-216-864-11	SHORT CHIP				RB3318	1-233-813-11	RES, NETWORK 150	(3216)		
110112	1210 001 11	OHOITH OHII				RB3319	1-233-813-11	RES, NETWORK 150	(3216)		
R3473	1-216-864-11	SHORT CHIP				1120010	1 200 010 11	1120, 11211101111100	(02:0)		
R3474	1-216-821-11		1K 5	5%	1/10W		CRYSTAL				
R3475	1-216-821-11			5%	1/10W		OKTOTAL				
110110	1210 021 11	ME II LE OTTI		270		X3101	1-795-951-21	QUARTZ CRYSTAL OSC	ILLATOR(	SMD)	
	RESISTOR BRID	)GE				X3301	1-781-887-21	VIBRATOR, CRYSTAL			
RB3101	1-236-908-11	NETWORK RESISTOR(CI		10K		11 ).51					
RB3102	1-239-409-11	NETWORK RESISTOR(CI	,	17							
RB3103	1-239-409-11	NETWORK RESISTOR(CI		17		*	A-1405-077-A	DS BOARD, MOUNT			
RB3104	1-239-409-11	NETWORK RESISTOR(CI		17			7-447-019-03	MATERIAL, COATING C	T-301S(1K	G)	
RB3105	1-239-409-11	NETWORK RESISTOR(CI	HIP) 4	17			7-682-952-09	SCREW +PSW 3X16			
RB3106	1-233-576-11	RES, CHIP NETWORK					CAPACITOR				
RB3107	1-233-576-11	RES, CHIP NETWORK				C9401	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
RB3108	1-233-576-11	RES, CHIP NETWORK				C9401	1-162-927-11	CERAMIC CHIP	100pF 100pF	5% 5%	50V 50V
RB3109	1-233-576-11	RES, CHIP NETWORK				C9402			•	5%	
RB3110	1-233-576-11	RES, CHIP NETWORK	100			C9403	1-162-927-11 1-126-968-11	CERAMIC CHIP ELECT	100pF 100µF	20%	50V 50V
						C9404 C9405	1-120-900-11	CERAMIC CHIP	100μF 100pF	20% 5%	50V 50V
RB3111	1-233-576-11	RES, CHIP NETWORK				∪ <del>34</del> 00	1-102-321-11	OLIVAIVIIO OLIIF	ισορι	J /0	JU V
RB3112	1-233-576-11	RES, CHIP NETWORK	100			C040e	1_162_027_11	CERAMIC CHIP	100nE	5%	50\/
RB3113	1-233-576-11	RES, CHIP NETWORK				C9406 C9407	1-162-927-11 1-126-968-11	ELECT	100pF	5% 20%	50V
RB3114	1-236-908-11	NETWORK RESISTOR(CI		10K		C9407 C9408	1-120-900-11	CERAMIC CHIP	100µF 100pF	20% 5%	50V 50V
RB3115	1-236-908-11	NETWORK RESISTOR(CI	HIP) 1	10K		03 <del>4</del> 00	1-10 <b>2-321-</b> 11	OLIVAINIO OF IIF	ιυυμΓ	J /0	JUV

NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
C9409	1-126-968-11	ELECT	100µF	20%	50V			IC LINK				
C9410	1-126-968-11	ELECT	100µF	20%	50V	^						
C9411	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	<u>^</u>	PS9400	1-533-595-31	IC LINK	3.15A	90V	
C9413	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	<u>^</u>	PS9401	1-533-595-31	IC LINK	3.15A	90V	
C9415	1-126-949-11	ELECT	220µF	20%	35V	<u>^</u>	PS9402	1-533-595-31	IC LINK	3.15A	90V	
						<u>^</u>	PS9403	1-533-595-31	IC LINK	3.15A	90V	
C9416	1-126-949-11	ELECT	220µF	20%	35V	<u>^</u>	PS9404	1-533-595-31	IC LINK	3.15A	90V	
C9417	1-126-949-11	ELECT	220µF	20%	35V	<u> </u>	PS9405	1-533-595-31	IC LINK	3.15A	90V	
C9418	1-162-927-11	CERAMIC CHIP	100pF	5%	50V							
C9419	1-162-927-11	CERAMIC CHIP	100pF	5%	50V			RESISTOR				
C9420	1-126-949-11	ELECT	220µF	20%	35V		R9400	1-216-809-11	METAL CHIP	100	5%	1/10W
							R9401	1-216-809-11	METAL CHIP	100	5%	1/10W
C9423	1-162-927-11	CERAMIC CHIP	100pF	5%	50V		R9402	1-216-809-11	METAL CHIP	100	5%	1/10W
C9425	1-162-927-11	CERAMIC CHIP	100pF	5%	50V		R9403	1-216-809-11	METAL CHIP	100	5%	1/10W
C9426	1-104-665-11	ELECT	100µF	20%	25V		R9404	1-216-809-11	METAL CHIP	100	5%	1/10W
C9427	1-104-665-11	ELECT	100µF	20%	25V		110404	1 210 000 11	WE IAE OITH	100	070	1710
C9428	1-104-665-11	ELECT	100µF	20%	25V		R9405	1-216-809-11	METAL CHIP	100	5%	1/10W
			•				R9406	1-216-809-11	METAL CHIP	100	5%	1/10W
	CONNECTOR						R9407	1-218-823-11	METAL CHIP	100		1/10W
							R9408	1-218-823-11	METAL CHIP	100		1/10W
* CN9400	1-793-494-11	CONNECTOR, BOARI					R9409	1-218-823-11	METAL CHIP	100		1/10W
* CN9401	1-764-334-11	PIN, CONNECTOR(PO	,,				113403	1-210-025-11	WIL TAL CITII	100	0.5070	1/1000
* CN9403	1-564-515-11	PLUG, CONNECTOR		12P			R9410	1-216-809-11	METAL CHIP	100	5%	1/10W
* CN9404	1-564-507-11	PLUG, CONNECTOR		4P			R9410	1-218-863-11	METAL CHIP	4.7K		1/10W
* CN9405	1-564-507-11	PLUG, CONNECTOR		4P			R9411					1/10W
							R9412 R9413	1-218-823-11	METAL CHIP	100		
* CN9406	1-564-507-11	PLUG, CONNECTOR		4P			R9413 R9414	1-218-823-11	METAL CHIP	100		1/10W
* CN9407	1-564-507-11	PLUG, CONNECTOR		4P			K9414	1-218-823-11	METAL CHIP	100	0.50%	1/10W
* CN9409	1-564-506-11	PLUG, CONNECTOR		3P			D0445	1 210 062 11	METAL CHID	4 71/	0.500/	1/10/4/
							R9415 R9416	1-218-863-11	METAL CHIP	4.7K		1/10W
	<u>DIODE</u>							1-218-863-11	METAL CHIP	4.7K		1/10W
D0407	0.740.004.00	DIODE	400422T	77			R9417	1-216-809-11	METAL CHIP	100	5%	1/10W
D9407	8-719-991-33	DIODE	1SS133T-				R9418	1-218-863-11	METAL CHIP	4.7K		1/10W
D9409	8-719-110-17	DIODE	RD10ESE	32			R9419	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
	<u>IC</u>						R9420	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
100400	0.740.040.00	10	OTI/000 F	-00			R9424	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
IC9400	8-749-019-08	IC	STK392-5				R9425	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
IC9401	8-749-019-08	IC	STK392-5	000			R9427	1-214-808-11	METAL	4.7	1%	1/2W
	COIL						R9428	1-214-808-11	METAL	4.7	1%	1/2W
L9400	1-414-187-11	INDUCTOR	47µH				R9430	1-214-808-11	METAL	4.7	1%	1/2W
L9400 L9401		INDUCTOR	-				R9432	1-214-808-11	METAL	4.7	1%	1/2W
	1-414-187-11		47µH 47⊔				R9433	1-218-863-11	METAL CHIP	4.7K		1/10W
L9402	1-414-187-11	INDUCTOR	47µH				R9434	1-214-808-11	METAL	4.7	1%	1/2W
L9403	1-414-187-11	INDUCTOR	47µH				R9435	1-218-863-11	METAL CHIP	4.7K		1/10W
L9404	1-412-533-21	INDUCTOR	47µH				110100	. 210 000 11	ME I I C OI III	1.711	0.00 /0	17 1011
L9405	1-412-533-21	INDUCTOR	47µH				R9436	1-214-808-11	METAL	4.7	1%	1/2W
L9406	1-412-533-21	INDUCTOR	47µH				R9437	1-214-808-11	METAL	4.7	1%	1/2W
L9407	1-412-533-21	INDUCTOR	47µH				R9438	1-214-808-11	METAL	4.7	1%	1/2W
							R9440	1-214-808-11	METAL	4.7	1%	1/2W
							R9441	1-214-808-11	METAL	4.7	1%	1/2W
						- [						



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R9442	1-214-808-11	METAL	4.7	1%	1/2W		C6911	1-126-947-11	ELECT	47µF	20%	35V
R9443	1-214-808-11	METAL	4.7	1%	1/2W		C6914	1-117-219-11	CERAMIC	68pF	5%	1KV
										•		
R9446	1-214-808-11	METAL	4.7	1%	1/2W		C6915	1-117-219-11	CERAMIC	68pF	5%	1KV
R9447	1-214-808-11	METAL	4.7	1%	1/2W		C6916	1-100-624-11	FILM	4700pF	3%	800V
R9448	1-218-863-11	METAL CHIP	4.7K		1/10W		C6917	1-126-968-11	ELECT	100µF	20%	50V
R9450	1-218-887-11	METAL CHIP	47K		1/10W		C6918	1-126-968-11	ELECT	100µF	20%	50V
R9451	1-214-808-11	METAL	4.7	1%	1/2W		C6919	1-126-926-11	ELECT	1000µF	20%	10V
R9452	1-214-808-11	METAL	4.7	1%	1/2W		C6921	1-128-547-11	ELECT	6800µF	20%	16V
R9453	1-218-863-11	METAL CHIP	4.7K		1/10W		C6923	1-126-933-11	ELECT	100µF	20%	16V
R9454	1-214-808-11	METAL	4.7	1%	1/2W		C6925	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R9455	1-214-808-11	METAL	4.7	1%	1/2W		C6926	1-126-935-11	ELECT	470µF	20%	16V
R9456	1-214-808-11	METAL	4.7	1%	1/2W		C6929	1-126-933-11	ELECT	100µF	20%	16V
110100	121100011	WE 1712		170			00020	1 120 000 11	22201	. оор.	2070	101
R9457	1-214-808-11	METAL	4.7	1%	1/2W		C6930	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R9458	1-214-808-11	METAL	4.7	1%	1/2W		C6931	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R9459	1-214-808-11	METAL	4.7	1%	1/2W		C6932	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
R9460	1-214-808-11	METAL	4.7	1%	1/2W		00002	1 102 001 11	02.0 0	0.00 γμι	1070	001
R9461	1-214-808-11	METAL	4.7	1%	1/2W			CONNECTOR				
NOTOT	1 214 000 11	IVIL I/ \L	4.1	1 /0	1/211			CONNECTOR				
R9462	1-214-808-11	METAL	4.7	1%	1/2W	*	CN6900	1-580-844-11	PIN, CONNECTOR (PO	WER)		
R9463	1-214-808-11	METAL	4.7	1%	1/2W	*	CN6901	1-691-756-11	PIN, CONNECTOR (PC	BOARD)	2P	
R9464	1-214-808-11	METAL	4.7	1%	1/2W	*	CN6902	1-564-512-11	PLUG, CONNECTOR		9P	
R9465	1-214-808-11	METAL	4.7	1%	1/2W	*	CN6905	1-564-506-11	PLUG, CONNECTOR		3P	
R9466	1-243-532-71	METAL OXIDE	120	5%	3W							
113400	1-240-002-71	WIL TAL OAIDL	120	J /0	JVV			DIODE				
R9467	1-243-532-71	METAL OXIDE	120	5%	3W		D6004	0 710 002 70	DIODE	100000	TD	
R9468	1-214-808-11	METAL	4.7	1%	1/2W		D6901	8-719-083-78	DIODE	10ERA60		
R9470	1-214-808-11	METAL	4.7	1%	1/2W		D6902	8-719-082-03	DIODE	MM3Z15\		
R9471	1-243-532-71	METAL OXIDE	120	5%	3W		D6903	8-719-082-03	DIODE	MM3Z15\		
R9472	1-243-532-71	METAL OXIDE	120	5%	3W		D6904	8-719-082-03	DIODE	MM3Z15\		
1\3412	1-240-002-71	WIL TAL OAIDL	120	J /0	JVV		D6905	8-719-082-03	DIODE	MM3Z15\	/11	
R9473	1-243-532-71	METAL OXIDE	120	5%	3W		D0007	0 500 507 04	DIODE	4050000	TDE	
R9474	1-243-532-71	METAL OXIDE	120	5%	3W		D6907	6-500-567-21	DIODE	10ERB20		
1\3+1+	1-240-332-71	WIL TAL OAIDL	120	J /0	JVV		D6908	6-500-567-21	DIODE	10ERB20	-1B5	
							D6909	8-719-022-97	DIODE	D2S4µF		
							D6910	8-719-510-12	DIODE	D10SC4N		
	* A-1405-081-A	G2 BOARD, MOUNT	FD				D6913	8-719-068-71	DIODE	PTZ-TE2	o-13A	
	4-382-854-01	SCREW (M3X8), P, SW					D0044	0.740.000.00	DIODE	MM0745	/T4	
	1 002 001 01	CONCETT (MORO), 1, OTT	( ' )				D6914	8-719-082-03	DIODE	MM3Z15\		
	CAPACITOR						D6916	8-719-081-97	DIODE	MMDL914	<del>1</del> 11	
	<u> </u>							FEDRITE DE AD				
C6900	1-137-639-21	MYLAR	0.47µF	10%	450V			FERRITE BEAD				
C6902	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V		FB6900	1-469-578-11	FERRITE	1.1µH		
C6903	1-126-964-11	ELECT	10μF	20%	50V							
C6904	1-126-959-11	ELECT	0.47µF	20%	50V			<u>IC</u>				
C6906	1-126-967-11	ELECT	47µF	20%	50V			<u></u>				
							IC6900	6-703-355-01	IC	MCZ3001		
C6907	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		IC6901	8-759-586-17	IC	TL1431C	Z-AP	
C6908	1-136-479-11	FILM	0.001µF	5%	100V		IC6902	8-759-470-65	IC	PQ05RD	ΙB	
C6909	1-136-165-00	FILM	0.1µF	5%	50V							

NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
		JUMPER WIRE					R6941	1-216-841-11	METAL CHIP	47K	5%	1/10W
	IMEDOD	1 460 570 11	FEDDITE	1 1 uLl			R6942	1-216-841-11	METAL CHIP	47K	5%	1/10W
	JW6900	1-469-578-11	FERRITE	1.1µH								
		COIL						TRANSFORMER				
		<u> </u>					T6900	1-439-879-11	TRANSFORMER, CO	)NVFRTFR (	PIT)	
	L6900	1-412-537-31	INDUCTOR	100µH				1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
	L6902	1-412-525-31	INDUCTOR	10µH								
	L6903	1-406-659-11	INDUCTOR	10µH				J				
		BUOTO COURLE	n						lexity of this board,			
		PHOTO COUPLE	<u>K</u>						s is not recommend			
<u></u>	PH6900	8-749-016-81	PHOTO COUPLER	PC123Y2	22				alfunctioned, the C A) must be replace	•	BOX AS	sembly
									for reference only.	u.		
		TRANSISTOR						- a.a. 10 p. 01. a.a.				
	Q6900	8-729-052-29	TRANSISTOR	2SK2876	-01MR-F	122		* A-1302-164-A	QI BOARD, COM	PLETE		
	Q6901	8-729-052-29	TRANSISTOR	2SK2876			*	4-088-898-01	CARTON			
	Q6904	8-729-010-05	TRANSISTOR	MSB709-								
	Q6905	8-729-010-25	TRANSISTOR	MSD601-	-RT1			CAPACITOR				
							C601	1-165-845-21	TANTAL. CHIP	47µF	20%	
		RESISTOR					C602	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6902	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W	C603	1-165-845-21	TANTAL. CHIP	47µF	20%	
	R6903	1-218-837-11	METAL CHIP	390		1/10W	C604	1-165-989-11	CERAMIC CHIP	10µF	10%	6.3V
	R6904	1-245-478-21	METAL	470K	1%	1/4W	C605	1-165-845-21	TANTAL. CHIP	47µF	20%	
	R6905	1-218-873-11	METAL CHIP	12K		1/10W						
	R6907	1-245-478-21	METAL	470K	1%	1/4W	C606	1-164-156-11	CERAMIC CHIP	0.1µF		25V
							C607	1-162-974-11	CERAMIC CHIP	0.01µF		50V
	R6908	1-218-823-11	METAL CHIP	100	0.50%	1/10W	C608	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6909	1-212-897-00	FUSIBLE	470	5%	1/4W	C609	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6910	1-249-393-11	CARBON	10	5%	1/4W	C610	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6911	1-249-393-11	CARBON	10	5%	1/4W	C611	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6912	1-216-833-11	METAL CHIP	10K	5%	1/10W	C612	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V
	D0040	4 040 000 44	METAL OLUD	4017	<b>F</b> 0/	4/40/4/	C613	1-164-156-11	CERAMIC CHIP	0.1μF		25V
	R6913	1-216-833-11	METAL CHIP	10K	5% 5%	1/10W	C614	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6916 R6917	1-216-817-11 1-216-864-11	METAL CHIP SHORT CHIP	470	5%	1/10W	C615	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6918	1-220-926-81	FUSIBLE	0.47	10%	1/2W						
	R6920	1-216-363-21	METAL OXIDE	0.33	5%	2W	C616	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			, 0,	0.00	• 70		C617	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6921	1-216-821-11	METAL CHIP	1K	5%	1/10W	C618	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6922	1-249-393-11	CARBON	10	5%	1/4W	C619	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6923	1-216-821-11	METAL CHIP	1K	5%	1/10W	C620	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6924	1-216-864-11	SHORT CHIP				0004	4 405 000 44	OEDAMIO OLUD	40 5	400/	0.01/
	R6925	1-249-393-11	CARBON	10	5%	1/4W	C621	1-165-989-11	CERAMIC CHIP	10μF	10%	6.3V
							C702 C703	1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1µF		25V 25V
	R6927	1-216-833-11	METAL CHIP	10K	5%	1/10W	C703	1-164-156-11 1-164-156-11	CERAMIC CHIP	0.1µF		25V 25V
	R6931	1-218-877-11	METAL CHIP	18K		1/10W	C704 C705	1-164-156-11	CERAMIC CHIP	0.1µF 0.1µF		25V 25V
	R6932	1-218-867-11	METAL CHIP	6.8K		1/10W	0703	1 10-7 100-11	OLIV WIIO OI III	υ. ιμι		201
	R6936	1-216-821-11	METAL CHIP	1K	5% 5%	1/10W	C706	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R6937	1-216-849-11	METAL CHIP	220K	5%	1/10W	C707	1-164-156-11	CERAMIC CHIP	0.1µF		25V
							C708	1-164-156-11	CERAMIC CHIP	0.1µF		25V
										•		



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
C709	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C805	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C710	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C806	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C711	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C807	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C712	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C808	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C713	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C809	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			- 1									
C714	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C810	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C715	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C811	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C716	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C812	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C717	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C813	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C718	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C814	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			- 1									
C719	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C815	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C720	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C816	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C721	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C817	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C722	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C818	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C723	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C819	1-165-989-11	CERAMIC CHIP	10μF	10%	6.3V
0.20	1 102 010 11	OLI U IIII O OI III	1001	0.00р1	001		0010	1 100 000 11	OLI U IIII O OI III	. ομ.	1070	0.01
C724	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V		C820	1-165-989-11	CERAMIC CHIP	10µF	10%	6.3V
C725	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V		C821	1-162-974-11	CERAMIC CHIP	0.01µF	1070	50V
C726	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C822	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C727	1-162-974-11	CERAMIC CHIP	0.01µF	1070	50V		C823	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C728	1-164-156-11	CERAMIC CHIP	0.01µF		25V		C824	1-125-837-91	CERAMIC CHIP	0.01μl 1μF	10%	6.3V
0120	1 104 100 11	OLIV WIIO OI III	υ. τμι		201		0024	1 120 007 01	OLIV WIIO OI III	·μ·	10 /0	0.0 V
C729	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C825	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C730	1-162-974-11	CERAMIC CHIP	0.01µF		50V		C826	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C731	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C828	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C732	1-162-974-11	CERAMIC CHIP	0.01µF	0.00pi	50V		C829	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C733	1-162-915-11	CERAMIC CHIP	10pF	0.50pF			C830	1-162-927-11	CERAMIC CHIP	100pr	5%	50V
0100	1-102-313-11	OLIVAIVIIC OTIII	торі	0.50pi	30 V		0000	1-102-927-11	OLIVAIVIIC OTIII	Ισορί	J /0	30 V
C734	1-165-989-11	CERAMIC CHIP	10µF	10%	6.3V		C832	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C735	1-165-989-11	CERAMIC CHIP	10μF	10%	6.3V		C833	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C736	1-162-974-11	CERAMIC CHIP	0.01µF	1070	50V		C834	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C737	1-162-974-11	CERAMIC CHIP	0.01µF		50V		C835	1-164-156-11	CERAMIC CHIP	0.1µF	0 / 0	25V
C738	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C836	1-164-156-11	CERAMIC CHIP	0.1μF		25V
0700	1 104 100 11	OLIV WIIO OI III	υ. τμι		201		0000	1 104 100 11	OLIV WIIO OI III	υ. τμι		201
C739	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V		C837	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C740	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V		C838	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C741	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V		C839	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C742	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V		C840	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C743	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V		C841	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
07.10	1 120 000 11	OLIVIMO OIIII	Σ.Ζμι	1070	0.01		0011	1 107 020 11	OLIVIMO OIIII	υ. τμι	1070	101
C744	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V			CONNECTOR				
C745	1-164-388-91	CERAMIC CHIP	270pF	5%	50V			<u></u>				
C746	1-164-156-11	CERAMIC CHIP	0.1µF	070	25V	*	CN602	1-817-738-11	CONNECTOR, BOAR	D TO BOARD	80P	
C747	1-164-388-91	CERAMIC CHIP	270pF	5%	50V	*	CN701	1-817-737-11	CONNECTOR, BOAR	D TO BOARD	40P	
C748	1-164-156-11	CERAMIC CHIP	0.1µF	070	25V	*	CN702	1-815-033-11	CONNECTOR, I LINK			
0170	1 104 100-11	OLI WIND OF III	υ. τμι		-01	*	CN703	1-815-164-21	CONNECTOR, I LINK	FLANGE TY	PE)	
C749	1-164-388-91	CERAMIC CHIP	270pF	5%	50V	*	CN704	1-815-164-21	CONNECTOR, I LINK	FLANGE TY	PE)	
C749	1-164-156-11	CERAMIC CHIP	270ρι 0.1μF	<b>U</b> /U	25V							
C803	1-164-156-11	CERAMIC CHIP	0.1μF		25V							
C804	1-164-156-11	CERAMIC CHIP	0.1μF		25V							
0004	1-10 <del>1</del> -100-11	OLIVAIVIIO OLIII	υ. ιμι		201							



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
	DIODE					R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R612	1-216-833-11	METAL CHIP	10K	5%	1/10W
D701	8-719-421-71	DIODE	MA132V			R613	1-216-833-11	METAL CHIP	10K	5%	1/10W
D702	8-719-421-71	DIODE	MA132V			R614	1-216-845-11	METAL CHIP	100K	5%	1/10W
D703	8-719-421-71	DIODE	MA132V	VA		R616	1-216-845-11	METAL CHIP	100K	5%	1/10W
	FERRITE BEAD					R617	1-216-833-11	METAL CHIP	10K	5%	1/10W
ED004	4 400 005 04	EEDDITE	0			R618	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB601	1-469-835-21	FERRITE	0μH			R619	1-216-864-11	SHORT CHIP	1011	370	171000
FB602	1-469-835-21	FERRITE	0μΗ			R620	1-216-864-11	SHORT CHIP			
FB801	1-469-835-21	FERRITE	0μΗ			R621	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB802	1-469-835-21	FERRITE	0µH			NU21	1-210-033-11	WIL TAL CITIF	IUN	3 /0	1/1000
	<u>IC</u>					R622	1-216-833-11	METAL CHIP	10K	5%	1/10W
10004	0.700.050.04	10	0)/D07/			R623	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC601	6-702-958-01	IC	CXD974			R624	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC602	8-759-832-05	IC	BA18BC			R625	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC703	6-702-511-11	IC			6-75-Y95WT	R701	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC704	6-704-487-01	IC	TC74LV	•	,						
IC802	6-704-488-01	IC	UPD728	94GD-LI	ML-A	R702	1-216-801-11	METAL CHIP	22	5%	1/10W
						R704	1-216-801-11	METAL CHIP	22	5%	1/10W
IC803	8-759-031-84	IC	SC7S04			R707	1-216-801-11	METAL CHIP	22	5%	1/10W
IC804	8-759-031-84	IC	SC7S04			R708	1-218-672-11	METAL CHIP	150	0.50%	1/10W
IC805	6-702-552-01	IC	BU2374	FV-E2		R709	1-216-801-11	METAL CHIP	22	5%	1/10W
IC807	6-703-791-01	IC	MSM56	√16160F	-8T3FM1						
IC808	6-704-487-01	IC	TC74LV	X74FT(E	EL)	R710	1-218-711-11	METAL CHIP	6.2K	0.50%	1/10W
						R711	1-216-801-11	METAL CHIP	22	5%	1/10W
	<u>COIL</u>					R712	1-216-801-11	METAL CHIP	22	5%	1/10W
L601	1-414-394-11	INDUCTOR	2.2µH			R713	1-216-801-11	METAL CHIP	22	5%	1/10W
L701	1-414-394-11	INDUCTOR	2.2µH			R714	1-218-662-11	METAL CHIP	56	0.50%	1/10W
L701	1-414-394-11	INDUCTOR	2.2µH								
L702	1-781-667-22	INDUCTOR	2.2µ11 0µH			R715	1-218-662-11	METAL CHIP	56	0.50%	1/10W
L703	1-781-667-22	INDUCTOR	0μΠ			R716	1-218-662-11	METAL CHIP	56	0.50%	1/10W
L704	1-701-007-22	INDUCTOR	υμιι			R717	1-218-662-11	METAL CHIP	56	0.50%	1/10W
L705	1-781-667-22	INDUCTOR	OμH			R719	1-218-662-11	METAL CHIP	56	0.50%	1/10W
L705 L706	1-781-667-22	INDUCTOR	0μΠ 0μΗ			R721	1-218-662-11	METAL CHIP	56	0.50%	1/10W
	1-781-667-22		•								
L707 L708	1-781-667-22	INDUCTOR INDUCTOR	0μH 0μH			R723	1-216-857-11	METAL CHIP	1M	5%	1/10W
L700 L801	1-414-394-11	INDUCTOR				R724	1-216-857-11	METAL CHIP	1M	5%	1/10W
LOUI	1-414-394-11	INDUCTOR	2.2µH			R725	1-216-857-11	METAL CHIP	1M	5%	1/10W
	RESISTOR					R726	1-218-662-11	METAL CHIP	56	0.50%	1/10W
						R727	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R601	1-216-801-11	METAL CHIP	22	5%	1/10W						
R602	1-216-801-11	METAL CHIP	22	5%	1/10W	R728	1-218-662-11	METAL CHIP	56		1/10W
R603	1-216-801-11	METAL CHIP	22	5%	1/10W	R729	1-218-662-11	METAL CHIP	56		1/10W
R604	1-216-801-11	METAL CHIP	22	5%	1/10W	R730	1-218-709-11	METAL CHIP	5.1K		1/10W
R605	1-216-801-11	METAL CHIP	22	5%	1/10W	R731	1-218-662-11	METAL CHIP	56		1/10W
Dooo	4 040 004 44	METAL CLUB	00	F0/	4/4014/	R732	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R606	1-216-801-11	METAL CHIP	22	5%	1/10W	D700	4 040 000 11	METAL OLUB	50	0.500/	4/40\4
R607	1-216-801-11	METAL CHIP	22	5%	1/10W	R733	1-218-662-11	METAL CHIP	56		1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W	R734	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W	R735	1-216-864-11	SHORT CHIP			
R610	1-216-833-11	METAL CHIP	10K	5%	1/10W	R736	1-216-864-11	SHORT CHIP			



R273	REF.NO.	PART NO.	DESCRIPTION	VALUE	3		REF.NO.	PART NO.	DESCRIPTION	VALUES
R801	R737		SHORT CHIP							
R802				10K	5%	1/10W			•	
R809									•	, ,
R804									•	, ,
R806   1218-884-11									,	
R808   1-218-833-11   METAL CHIP   10K   5%   1/10W   R8710   1-224-371-21   RES. NETWORK 47X4   (1005)	1004	1 210 000 11	WIL IT LE OT III	1010	070	171000	NDTOO	1 204 070 21	NEO, NETWORK TOTAL	(1000)
R808   1-218-833-11   METAL CHIP   10K   5%   1/10W   R8710   1-224-371-21   RES. NETWORK 47X4   (1005)	R805	1-216-864-11	SHORT CHIP				RR709	1-234-371-21	RES NETWORK 47X4	(1005)
R807				10K	5%	1/10W				
R808									·	
R809									,	
R810 1-216-809-11 METAL CHIP 10K 5% 1/10W R8715 1-224-378-21 RES. NETWORK 10KX4 (1005) R812 1-216-88-11 SHORT CHIP 10K 5% 1/10W R8715 1-224-378-21 RES. NETWORK 10KX4 (1005) R814 1-216-833-11 METAL CHIP 10K 5% 1/10W R8801 1-224-378-21 RES. NETWORK 10KX4 (1005) R814 1-216-833-11 METAL CHIP 10K 5% 1/10W R8802 1-234-378-21 RES. NETWORK 10KX4 (1005) R816 1-216-833-11 METAL CHIP 10K 5% 1/10W R8802 1-234-378-21 RES. NETWORK 10KX4 (1005) R816 1-216-803-11 METAL CHIP 33 5% 1/10W R8804 1-224-378-21 RES. NETWORK 10KX4 (1005) R817 1-216-803-11 METAL CHIP 33 5% 1/10W R8804 1-224-378-21 RES. NETWORK 10KX4 (1005) R818 1-216-801-11 METAL CHIP 22 5% 1/10W R8815 1-224-378-21 RES. NETWORK 10KX4 (1005) R820 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-224-378-21 RES. NETWORK 10KX4 (1005) R821 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-224-378-21 RES. NETWORK 10KX4 (1005) R822 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-224-378-21 RES. NETWORK 10KX4 (1005) R823 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-224-378-21 RES. NETWORK 10KX4 (1005) R824 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-224-378-21 RES. NETWORK 10KX4 (1005) R825 1-216-841-11 METAL CHIP 47K 5% 1/10W R8819 1-224-378-21 RES. NETWORK 10KX4 (1005) R826 1-216-841-11 METAL CHIP 47K 5% 1/10W R8800 1-234-378-21 RES. NETWORK 10KX4 (1005) R826 1-216-841-11 METAL CHIP 47K 5% 1/10W R8800 1-234-378-21 RES. NETWORK 10KX4 (1005) R826 1-216-841-11 METAL CHIP 47K 5% 1/10W R8800 1-234-378-21 RES. NETWORK 10KX4 (1005) R826 1-216-841-11 METAL CHIP 47K 5% 1/10W R8800 1-234-378-21 RES. NETWORK 10KX4 (1005) R826 1-224-370-21 RES. NETWORK 2ZX4 (1005) R8820 1-234-378-21 RES. NETWORK 10KX4 (1005) R826 1-234-370-21 RES. NETWORK 2ZX4 (1005) R8820 1-234-372-21 RES. NETWORK 10KX4 (1005) R8800 1-234-370-21 RES. NETWORK 2ZX4 (1005) R8820 1-234-372-21 RES. NETWORK 10KX4 (1005) R8801 1-234-370-21 RES. NETWORK 2ZX4 (1005) R8820 1-234-372-21 RES. NETWORK 10KX4 (1005) R8801 1-234-370-21 RES. NETWORK 2ZX4 (1005) R8830 1-234-372-21 RES. NETWORK 10KX4 (1005) R8801 1-234-370-21 RES. NETWORK 2ZX4 (1005) R8										
R811	11000	1 210 000 11	ME I/LE OF III	1010	070	1/1011	TET TO	1 201 010 21	NEO, NETWORK TOTOK	(1000)
R811	R810	1-216-809-11	METAL CHIP	100	5%	1/10W	RR714	1-234-378-21	RES NETWORK 10KX4	(1005)
R812										
R813				1010	070	1/1011			•	, ,
R814				10K	5%	1/10W			•	, ,
R816 1-216-833-11 METAL CHIP 10K 5% 1/10W R8804 1-234-378-21 RES, NETWORK 10KX4 (1005) R817 1-216-833-11 METAL CHIP 10K 5% 1/10W R8814 1-234-378-21 RES, NETWORK 10KX4 (1005) R818 1-216-803-11 METAL CHIP 22 5% 1/10W R8815 1-234-378-21 RES, NETWORK 10KX4 (1005) R820 1-216-803-11 METAL CHIP 22 5% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005) R821 1-218-899-11 METAL CHIP 2K 0.50% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005) R822 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005) R823 1-216-941-11 METAL CHIP 33 5% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005) R824 1-216-803-11 METAL CHIP 33 5% 1/10W R8819 1-234-378-21 RES, NETWORK 10KX4 (1005) R825 1-216-941-11 METAL CHIP 47K 5% 1/10W R8819 1-234-378-21 RES, NETWORK 10KX4 (1005) R826 1-216-941-11 METAL CHIP 47K 5% 1/10W R8820 1-234-378-21 RES, NETWORK 10KX4 (1005) R826 1-216-941-11 METAL CHIP 47K 5% 1/10W R8821 1-234-378-21 RES, NETWORK 10KX4 (1005) R826 1-234-370-21 RES, NETWORK 2ZX4 (1005) R827 1-234-370-21 RES, NETWORK 2ZX4 (1005) R8800 1-234-370-21 RES, NETWORK 2ZX4 (1005) R8801 1-234-370-21 RES, NETWORK 2ZX4 (1005) R8800 1-234-370-21 RES, NETWORK 2ZX4 (1005) R8801 1-234-370-21 RES, NETWORK 10KX4 (1005) R8801 1-234-370-21 RES, NETWORK 2ZX4 (1005) R8801 1-234-370-21 RES, NETWORK 10KX4 (1005) R8801 1-234-370-21 RES, NETW									,	
R816   1-216-803-11   METAL CHIP   33   5%   1/10W   R88104   1-234-378-21   RES, NETWORK 10KX4   (1005)   R817   1-216-803-11   METAL CHIP   10K   5%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R820   1-216-803-11   METAL CHIP   2k   0.50%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R821   1-218-689-11   METAL CHIP   2k   0.50%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R822   1-216-803-11   METAL CHIP   37   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)   R823   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)   R825   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8820   1-234-378-21   RES, NETWORK 10KX4   (1005)   R825   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8821   1-234-378-21   RES, NETWORK 10KX4   (1005)   R826   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8821   1-234-378-21   RES, NETWORK 10KX4   (1005)   R826   1-234-370-21   RES, NETWORK 22X4   (1005)   R826   1-234-370-21   RES, NETWORK 100X4   (1005)   R826   1-234-370-21   RES, NETWORK 100X4   (1005)   R826	1014	1 210 000 11	WIL IT LE OT III	1010	070	171000	NDOOZ	1 204 070 21	NEO, NETWORK TOTAL	(1000)
R816   1-216-803-11   METAL CHIP   33   5%   1/10W   R88104   1-234-378-21   RES, NETWORK 10KX4   (1005)   R817   1-216-803-11   METAL CHIP   10K   5%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R820   1-216-803-11   METAL CHIP   2k   0.50%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R821   1-218-689-11   METAL CHIP   2k   0.50%   1/10W   R8816   1-234-378-21   RES, NETWORK 10KX4   (1005)   R822   1-216-803-11   METAL CHIP   37   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)   R823   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)   R825   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8820   1-234-378-21   RES, NETWORK 10KX4   (1005)   R825   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8821   1-234-378-21   RES, NETWORK 10KX4   (1005)   R826   1-216-841-11   METAL CHIP   47K   5%   1/10W   R8821   1-234-378-21   RES, NETWORK 10KX4   (1005)   R826   1-234-370-21   RES, NETWORK 22X4   (1005)   R826   1-234-370-21   RES, NETWORK 100X4   (1005)   R826   1-234-370-21   RES, NETWORK 100X4   (1005)   R826	R815	1-216-833-11	METAL CHIP	10K	5%	1/10W	RR803	1-234-378-21	RES NETWORK 10KX4	(1005)
R817										
R818 1-216-801-11 METAL CHIP 22 5% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005)  R820 1-216-803-11 METAL CHIP 33 5% 1/10W R8816 1-234-378-21 RES, NETWORK 10KX4 (1005)  R821 1-218-699-11 METAL CHIP 3X 0.50% 1/10W R8818 1-234-378-21 RES, NETWORK 10KX4 (1005)  R822 1-216-803-11 METAL CHIP 3X 0.50% 1/10W R8818 1-234-378-21 RES, NETWORK 10KX4 (1005)  R823 1-216-841-11 METAL CHIP 47K 5% 1/10W R8820 1-234-378-21 RES, NETWORK 10KX4 (1005)  R824 1-216-831-11 METAL CHIP 47K 5% 1/10W R8820 1-234-378-21 RES, NETWORK 10KX4 (1005)  R825 1-216-841-11 METAL CHIP 47K 5% 1/10W R8821 1-234-378-21 RES, NETWORK 10KX4 (1005)  R826 1-216-841-11 METAL CHIP 47K 5% 1/10W R8821 1-234-378-21 RES, NETWORK 10KX4 (1005)  R827 1-234-370-21 RES, NETWORK 22X4 (1005)  R8801 1-234-370-21 RES, NETWORK 22X4 (1005)  R8802 1-234-370-21 RES, NETWORK 22X4 (1005)  R8803 1-234-370-21 RES, NETWORK 22X4 (1005)  R8804 1-234-370-21 RES, NETWORK 22X4 (1005)  R8805 1-234-370-21 RES, NETWORK 22X4 (1005)  R8806 1-234-370-21 RES, NETWORK 22X4 (1005)  R8807 1-234-370-21 RES, NETWORK 22X4 (1005)  R8808 1-234-370-21 RES, NETWORK 22X4 (1005)  R8809 1-234-370-21 RES, NETWORK 22X4 (1005)  R8800 1-234-370-21 RES, NETWORK 22X4 (1005)  R8801 1-234-370-21 RES, NETWORK 22X4 (1005)  R8802 1-234-370-21 RES, NETWORK 22X4 (1005)  R8803 1-234-370-21 RES, NETWORK 22X4 (1005)  R8804 1-234-370-21 RES, NETWORK 22X4 (1005)  R8805 1-234-370-21 RES, NETWORK 22X4 (1005)  R8806 1-234-370-21 RES, NETWORK 22X4 (1005)  R8807 1-234-370-21 RES, NETWORK 22X4 (1005)  R8808 1-234-370-21 RES, NETWORK 22X4 (1005)  R8809 1-234-370-21 RES, NETWORK 22X4 (1005)  R8801 1-234-370-21 RES, NETWORK 22X4 (1005)  R8802 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8803 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8804 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8805 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8806 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8807 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8808 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8809 1-234-370-21 RES, NETWORK 10KX4 (1005)  R8811 1-234-370-21 RES, NETW									•	, ,
R820									•	
R821									,	
R822   1-216-803-11   METAL CHIP   33   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)	11020	1 210 000 11	ME I/LE OF III	00	070	1/1011	RECTO	1 201 010 21	NEO, NETWORK TOTOK	(1000)
R822   1-216-803-11   METAL CHIP   33   5%   1/10W   R8818   1-234-378-21   RES, NETWORK 10KX4   (1005)	R821	1-218-699-11	METAL CHIP	2K	0.50%	1/10W	RB817	1-234-378-21	RES NETWORK 10KX4	(1005)
R823										
R824									•	, ,
R825   1-216-841-11									•	
R826									·	
RESISTOR BRIDGE   RESISTOR R									,	()
RESISTOR BRIDGE  RB601 1-234-370-21 RES, NETWORK 22X4 (1005) RB602 1-234-370-21 RES, NETWORK 22X4 (1005) RB603 1-234-370-21 RES, NETWORK 22X4 (1005) RB604 1-234-370-21 RES, NETWORK 22X4 (1005) RB605 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB600 1-234-370-21 RES, NETWORK 22X4 (1005) RB601 1-234-370-21 RES, NETWORK 22X4 (1005) RB602 1-234-370-21 RES, NETWORK 22X4 (1005) RB603 1-234-370-21 RES, NETWORK 22X4 (1005) RB604 1-234-370-21 RES, NETWORK 22X4 (1005) RB605 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10X4 (1005) RB611 1-234-378-21 RES, NETWORK 10X4 (1005) RB612 1-234-378-21 RES, NETWORK 10X4 (1005) RB613 1-234-378-21 RES, NETWORK 10X4 (1005) RB614 1-234-378-21 RES, NETWORK 10X4 (1005) RB615 1-234-370-21 RES, NETWORK 10X4 (1005) RB616 1-234-370-21 RES, NETWORK 10X4 (1005) RB617 1-234-370-21 RES, NETWORK 10X4 (1005) RB618 1-234-370-21 RES, NETWORK 10X4 (1005) RB619 1-234-370-21 RES, NETWORK 10X4 (1005) RB610 1-234-378-21 RES, NETWORK 10X4 (1005) RB611 1-234-370-21 RES, NETWORK 10X4 (1005) RB612 1-234-370-21 RES, NETWORK 10X4 (1005) RB613 1-234-370-21 RES, NETWORK 10X4 (1005) RB614 1-234-370-21 RES, NETWORK 10X4 (1005) RB615 1-234-370-21 RES, NETWORK 10X4 (1005) RB616 1-234-370-21 RES, NETWORK 10X4 (1005) RB617 1-234-370-21 RES, NETWORK 10X4 (1005) RB618 1-234-370-21 RES, NETWORK 10X4 (1005) RB619 1-234-370-21 RES, NETWORK 10X4 (1005) RB619 1-234-370-21 RES, NETWORK 10X4 (1005) RB610 1-234-370-21 RES, NETWORK 10X4 (1005) RB611 1-234-370-21 RES, NETWORK 10X4 (1005) RB612 1-234-370-21 RES, NETWORK 10X4 (1005) RB613 1-234-370-21 RES, NETWORK 10X4 (1005) RB614 1-234-370-21 RES, NETWORK 10X4 (1005) RB615							RB822	1-234-378-21	RES. NETWORK 10KX4	(1005)
RB601         1-234-370-21         RES, NETWORK 22X4         (1005)         RB824         1-234-378-21         RES, NETWORK 10KX4         (1005)           RB602         1-234-370-21         RES, NETWORK 22X4         (1005)         RB825         1-234-378-21         RES, NETWORK 10KX4         (1005)           RB603         1-234-370-21         RES, NETWORK 22X4         (1005)         RB826         1-234-372-21         RES, NETWORK 10XX4         (1005)           RB604         1-234-370-21         RES, NETWORK 22X4         (1005)         RB827         1-234-372-21         RES, NETWORK 10XX4         (1005)           RB605         1-234-370-21         RES, NETWORK 22X4         (1005)         RB828         1-234-378-21         RES, NETWORK 10XX4         (1005)           RB606         1-234-370-21         RES, NETWORK 22X4         (1005)         RB830         1-234-372-21         RES, NETWORK 10XX4         (1005)           RB607         1-234-370-21         RES, NETWORK 22X4         (1005)         RB830         1-234-372-21         RES, NETWORK 10XX4         (1005)           RB609         1-234-370-21         RES, NETWORK 10KX4         (1005)         RB831         1-234-372-21         RES, NETWORK 10XX4         (1005)           RB611         1-234-378-21         RES, NETWORK 10KX		RESISTOR BRID	OGE							
RB601 1-234-370-21 RES, NETWORK 22X4 (1005) RB602 1-234-370-21 RES, NETWORK 22X4 (1005) RB603 1-234-370-21 RES, NETWORK 22X4 (1005) RB604 1-234-370-21 RES, NETWORK 22X4 (1005) RB605 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-370-21 RES, NETWORK 10XX4 (1005) RB611 1-234-378-21 RES, NETWORK 10XX4 (1005) RB612 1-234-378-21 RES, NETWORK 10XX4 (1005) RB613 1-234-378-21 RES, NETWORK 10XX4 (1005) RB614 1-234-378-21 RES, NETWORK 10XX4 (1005) RB615 1-234-378-21 RES, NETWORK 10XX4 (1005) RB616 1-234-378-21 RES, NETWORK 10XX4 (1005) RB617 1-234-378-21 RES, NETWORK 10XX4 (1005) RB618 1-234-378-21 RES, NETWORK 10XX4 (1005) RB619 1-234-378-21 RES, NETWORK 10XX4 (1005) RB610 1-234-378-21 RES, NETWORK 10XX4 (1005) RB611 1-234-378-21 RES, NETWORK 10XX4 (1005) RB612 1-234-378-21 RES, NETWORK 10XX4 (1005) RB613 1-234-378-21 RES, NETWORK 10XX4 (1005) RB614 1-234-378-21 RES, NETWORK 10XX4 (1005) RB615 1-234-378-21 RES, NETWORK 10XX4 (1005) RB616 1-234-378-21 RES, NETWORK 10XX4 (1005) RB617 1-234-378-21 RES, NETWORK 10XX4 (1005) RB618 1-234-378-21 RES, NETWORK 10XX4 (1005) RB619 1-234-378-21 RES, NETWORK 10XX4 (1005) RB610 1-234-378-21 RES, NETWORK 10XX4 (1005) RB611 1-234-378-21 RES, NETWORK 10XX4 (1005) RB612 1-234-378-21 RES, NETWORK 10XX4 (1005) RB633 1-234-378-21 RES, NETWORK 10XX4 (1005) RB634 1-234-378-21 RES, NETWORK 10XX4 (1005) RB635 1-234-372-21 RES, NETWORK 10XX4 (1005) RB636 1-234-372-21 RES, NETWORK 10XX4 (1005) RB637 1-234-372-21 RES, NETWORK 10XX4 (1005) RB638 1-234-372-21 RES, NETWORK 10XX4 (1005) RB639 1-234-372-21 RES, NETWORK 10XX4 (1005)									RES, NETWORK 10KX4	, ,
RB602 1-234-370-21 RES, NETWORK 22X4 (1005) RB603 1-234-370-21 RES, NETWORK 22X4 (1005) RB604 1-234-370-21 RES, NETWORK 22X4 (1005) RB605 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 22X4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 RES, NETWORK 10KX4 (1005) RB612 RES, NETWORK 10KX4 (1005) RB613 RES, NETWORK 10KX4 (1005) RB614 RES, NETWORK 10KX4 (1005) RB615 RES, NETWORK 10KX4 (1005) RB616 RES, NETWORK 10KX4 (1005) RB617 RES, NETWORK 10KX4 (1005) RB618 RES, NETWORK 10KX4 (1005) RB619 RES, NETWORK 10KX4 (1005) RB619 RES, NETWORK 10KX4 (1005) RB610 RES, NETWORK 10KX4 (1005) RB611 RES, NETWORK 10KX4 (1005) RB612 RES, NETWORK 10KX4 (1005) RB613 RES, NETWORK 10KX4 (1005) RB614 RES, NETWORK 10KX4 (1005) RB615 RES, NETWORK 10KX4 (1005) RB617 RES, NETWORK 10KX4 (1005) RB618 RES, NETWORK 10KX4 (1005) RB619 RES, NETWORK 10KX4 (1005) RB619 RES, NETWORK 10KX4 (1005) RB610 RES, NETWORK 10KX4 (1005) RB611 RES, NETWORK 10KX4 (1005) RB			•							
RB603 1-234-370-21 RES, NETWORK 22X4 (1005) RB604 1-234-370-21 RES, NETWORK 22X4 (1005) RB605 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005)			•							
RB605 1-234-370-21 RES, NETWORK 22X4 (1005)  RB606 1-234-370-21 RES, NETWORK 22X4 (1005)  RB607 1-234-370-21 RES, NETWORK 22X4 (1005)  RB608 1-234-370-21 RES, NETWORK 22X4 (1005)  RB608 1-234-370-21 RES, NETWORK 22X4 (1005)  RB609 1-234-370-21 RES, NETWORK 22X4 (1005)  RB600 1-234-370-21 RES, NETWORK 22X4 (1005)  RB601 1-234-370-21 RES, NETWORK 22X4 (1005)  RB601 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB611 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB612 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB613 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB614 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB615 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB616 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB617 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB629 1-234-372-21 RES, NETWORK 100X4 (1005)  RB630 1-234-372-21 RES, NETWORK 100X4 (1005)  RB631 1-234-372-21 RES, NETWORK 10X4 (1005)  RB633 1-234-372-21 RES, NETWORK 10X4 (1005)  RB636 1-234-372-21 RES, NETWORK 10X4 (1005)  RB637 1-234-372-21 RES, NETWORK 10X4 (1005)  RB638 1-234-372-21 RES, NETWORK 10X4 (1005)  RB639 1-234-372-21 RES, NETWORK 10X4 (1005)  RB639 1-234-372-21 RES, NETWORK 10X4 (1005)  RB630 1-234-372-21 RES, NETWORK 10X4 (1005)  RB631 1-234-372-21 RES, NETWORK 10X4 (1005)  RB631 1-234-372-21 RES, NETWORK 10X4 (1005)  RB631 1-234-372-21 RES, NETWORK 10X4 (1005)  RB633 1-234-372-21 RES, NETWORK 10X4 (1005)  RB634 1-234-372-21 RES, NETWORK 10X4 (1005)  RB635 1-234-372-21 RES, NETWORK 10X4 (1005)  RB636 1-234-372-21 RES, NETWORK 10X4 (1005)  RB637 1-234-372-21 RES, NETWORK 10X4 (1005)  RB638 1-234-372-21 RES, NETWORK 10X4 (1005)  RB639 1-234-372-21 RES, NETWORK 10X4 (1005)									,	( )
RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB601 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10X4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005)							RB827	1-234-372-21	RES, NETWORK 100X4	(1005)
RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005)	RB605	1-234-370-21	RES, NETWORK 22X4	(1005)						
RB606 1-234-370-21 RES, NETWORK 22X4 (1005) RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005)									·	
RB607 1-234-370-21 RES, NETWORK 22X4 (1005) RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10KX4 (1005) RB616 1-234-378-21 RES, NETWORK 10KX4 (1005) RB617 1-234-378-21 RES, NETWORK 10KX4 (1005) RB618 1-234-378-21 RES, NETWORK 10KX4 (1005) RB619 1-234-378-21 RES, NETWORK 10KX4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-378-21 RES, NETWORK 10X4 (1005) RB616 1-234-378-21 RES, NETWORK 10X4 (1005) RB617 1-234-378-21 RES, NETWORK 10X4 (1005) RB838 1-234-372-21 RES, NETWORK 10X4 (1005) RB839 1-234-378-21 RES, NETWORK 10X4 (1005) RB839 1-234-378-21 RES, NETWORK 10X4 (1005)										
RB608 1-234-370-21 RES, NETWORK 22X4 (1005) RB609 1-234-370-21 RES, NETWORK 22X4 (1005) RB610 1-234-378-21 RES, NETWORK 10KX4 (1005) RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB615 1-234-370-21 RES, NETWORK 10KX4 (1005) RB616 1-234-370-21 RES, NETWORK 10KX4 (1005) RB701 1-234-370-21 RES, NETWORK 10KX4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB703 1-234-370-21 RES, NETWORK 22X4 (1005) RB704 1-234-370-21 RES, NETWORK 22X4 (1005) RB705 1-234-370-21 RES, NETWORK 22X4 (1005) RB706 1-234-370-21 RES, NETWORK 10KX4 (1005) RB707 1-234-370-21 RES, NETWORK 22X4 (1005) RB708 1-234-370-21 RES, NETWORK 10KX4 (1005) RB709 1-234-370-21 RES, NETWORK 10KX4 (1005) RB700 1-234-370-21 RES, NETWORK 22X4 (1005)										
RB610 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB611 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB612 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB613 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB614 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB701 1-234-370-21 RES, NETWORK 10KX4 (1005)  RB702 1-234-370-21 RES, NETWORK 22X4 (1005)  RB702 1-234-370-21 RES, NETWORK 22X4 (1005)  RB703 1-234-370-21 RES, NETWORK 22X4 (1005)  RB704 1-234-370-21 RES, NETWORK 22X4 (1005)  RB705 1-234-370-21 RES, NETWORK 22X4 (1005)  RB706 1-234-370-21 RES, NETWORK 10KX4 (1005)  RB707 1-234-370-21 RES, NETWORK 22X4 (1005)  RB708 1-234-372-21 RES, NETWORK 10X4 (1005)  RB709 1-234-370-21 RES, NETWORK 22X4 (1005)									,	( )
RB610 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB611 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB612 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB613 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB614 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB701 1-234-370-21 RES, NETWORK 10KX4 (1005)  RB702 1-234-370-21 RES, NETWORK 10KX4 (1005)  RB833 1-234-372-21 RES, NETWORK 100X4 (1005)  RB834 1-234-372-21 RES, NETWORK 100X4 (1005)  RB835 1-234-372-21 RES, NETWORK 100X4 (1005)  RB836 1-234-372-21 RES, NETWORK 100X4 (1005)  RB837 1-234-372-21 RES, NETWORK 100X4 (1005)  RB838 1-234-372-21 RES, NETWORK 100X4 (1005)  RB839 1-234-378-21 RES, NETWORK 100X4 (1005)  RB839 1-234-378-21 RES, NETWORK 100X4 (1005)							RB832	1-234-372-21	RES, NETWORK 100X4	(1005)
RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB701 1-234-370-21 RES, NETWORK 10KX4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB703 1-234-370-21 RES, NETWORK 22X4 (1005) RB704 1-234-370-21 RES, NETWORK 10KX4 (1005) RB705 1-234-370-21 RES, NETWORK 10KX4 (1005) RB706 1-234-370-21 RES, NETWORK 10KX4 (1005) RB707 1-234-370-21 RES, NETWORK 10KX4 (1005) RB708 1-234-370-21 RES, NETWORK 10KX4 (1005) RB709 1-234-370-21 RES, NETWORK 10KX4 (1005)	RB610	1-234-378-21	RES, NETWORK 10KX4	(1005)						
RB611 1-234-378-21 RES, NETWORK 10KX4 (1005) RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB701 1-234-370-21 RES, NETWORK 10KX4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB703 1-234-370-21 RES, NETWORK 22X4 (1005) RB704 1-234-370-21 RES, NETWORK 10X4 (1005) RB705 1-234-370-21 RES, NETWORK 10X4 (1005) RB706 1-234-370-21 RES, NETWORK 10X4 (1005) RB707 RB708 1-234-370-21 RES, NETWORK 10X4 (1005) RB708 1-234-370-21 RES, NETWORK 10X4 (1005) RB709 1-234-370-21 RES, NETWORK 10X4 (1005)									·	
RB612 1-234-378-21 RES, NETWORK 10KX4 (1005) RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB701 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB703 1-234-370-21 RES, NETWORK 10KX4 (1005) RB704 1-234-370-21 RES, NETWORK 10KX4 (1005) RB705 1-234-370-21 RES, NETWORK 10KX4 (1005) RB706 1-234-372-21 RES, NETWORK 100X4 (1005) RB707 RB708 1-234-378-21 RES, NETWORK 10KX4 (1005) RB708 1-234-378-21 RES, NETWORK 10KX4 (1005)			•	, ,						
RB613 1-234-378-21 RES, NETWORK 10KX4 (1005) RB614 1-234-378-21 RES, NETWORK 10KX4 (1005) RB701 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB702 1-234-370-21 RES, NETWORK 22X4 (1005) RB703 1-234-378-21 RES, NETWORK 10KX4 (1005) RB704 RB705 1-234-370-21 RES, NETWORK 10KX4 (1005)				. ,						
RB701 1-234-370-21 RES, NETWORK 22X4 (1005)  RB838 1-234-372-21 RES, NETWORK 100X4 (1005)  RB839 1-234-378-21 RES, NETWORK 10XX4 (1005)  RB839 1-234-378-21 RES, NETWORK 10XX4 (1005)				. ,						•
RB701 1-234-370-21 RES, NETWORK 22X4 (1005)  RB838 1-234-372-21 RES, NETWORK 100X4 (1005)  RB839 1-234-378-21 RES, NETWORK 10KX4 (1005)  RB839 1-234-378-21 RES, NETWORK 10KX4 (1005)				. ,			RB837	1-234-372-21	RES, NETWORK 100X4	(1005)
RB702 1-234-370-21 RES, NETWORK 22X4 (1005)	RB701	1-234-370-21	RES, NETWORK 22X4	(1005)						
RB702 1-234-370-21 RES, NETWORK 22X4 (1005)										
RB703 1-234-370-21 RES, NETWORK 22X4 (1005)								-	,	, ,
	RB703	1-234-370-21	RES, NETWORK 22X4	(1005)						





RB840 1-234-378-21 RES, NETWORK 10KX4 (1005) C7930 1-164-15 RB841 1-234-378-21 RES, NETWORK 10KX4 (1005) C7931 1-164-15 RB842 1-234-378-21 RES, NETWORK 10KX4 (1005) C7932 1-162-97 C7933 1-164-15  CRYSTAL  X701 1-795-415-21 VIBRATOR, CRYSTAL X801 1-813-058-21 OSCILLATOR, CRYSTAL  * CN7900 1-817-70	56-11 CERAMIC CHIP 0.1μF 25V 70-11 CERAMIC CHIP 0.01μF 10% 25V 56-11 CERAMIC CHIP 0.1μF 25V  CTOR
RB842 1-234-378-21 RES, NETWORK 10KX4 (1005) C7932 1-162-97 C7933 1-164-15  CRYSTAL  X701 1-795-415-21 VIBRATOR, CRYSTAL	70-11 CERAMIC CHIP 0.01μF 10% 25V 56-11 CERAMIC CHIP 0.1μF 25V  CTOR  00-11 CONNECTOR, BOARD TO BOARD 24P
CRYSTAL  X701 1-795-415-21 VIBRATOR, CRYSTAL  C7933 1-164-15  CONNEC	CETOR         CONNECTOR, BOARD TO BOARD 24P
CRYSTAL  X701 1-795-415-21 VIBRATOR, CRYSTAL  CONNEC	CTOR  00-11 CONNECTOR, BOARD TO BOARD 24P
X701 1-795-415-21 VIBRATOR, CRYSTAL	00-11 CONNECTOR, BOARD TO BOARD 24P
X801 1-813-058-21 USCILLATUR, CRYSTAL I ^ CN7900 1-817-70	
· ·	34-01 IC GP1FA313120F
CN7902 6-600-23	
DIODE	
Due to the complexity of this board, performing component	46-91 DIODE MA2S111
level field repairs is not recommended. If it is determined that this board has malfunctioned, the Complete Q Box Assembly	
(P/N A-1606-037-A) must be replaced. D7902 8-719-06	
Data is provided for reference only.	50 00 BIOSE SINE 210III 100
<u>FERRITI</u>	E BEAD
* A-1302-541-A QT BOARD, COMPLETE 3.730.416.01 SCDEW.(2Y3) 4D9 FB7900 1-414-13	35-11 FERRITE 0µH
3-739-116-01 SCREW (2X3), +PS FB7901 1-414-13	•
ED7000 4 400 00	•
<u>CAPACITOR</u> FB7903 1-469-83 FB7904 1-414-13	•
C7901 1-128-551-11 ELECT 22µF 20% 63V	ορη
C7902 1-162-995-11 CERAMIC CHIP 0.022μF 50V <u>ι</u> <u></u>	
C7903 1-162-995-11 CERAMIC CHIP 0.022µF 50V	
C7904 1-126-963-11 ELECT 4.7µF 20% 50V IC7900 8-749-92	
C7905 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V IC7903 8-759-83	
IC7904 8-759-47	75-12 IC TC74LCX08F(EL)
C7906 1-126-964-11 ELECT 10µF 20% 50V	
C7907 1-126-933-11 ELECT 100µF 20% 16V <u>COIL</u>	
C7908 1-126-933-11 ELECT 100μF 20% 16V L7901 1-414-7ξ	55-11 INDUCTOR 22µH
C7909 1-126-935-11 ELECT 470µF 20% 16V L7902 1-410-12	•
C7910 1-126-964-11 ELECT 10µF 20% 50V L7903 1-408-61	
L7904 1-414-75	•
C7911 1-126-933-11 ELECT 100μF 20% 16V L7905 1-414-75	•
C7912 1-164-156-11 CERAMIC CHIP 0.1µF 25V	'
C7913 1-164-156-11 CERAMIC CHIP 0.1µF 25V L7906 1-414-75	54-11 INDUCTOR 10µH
C7914 1-164-156-11 CERAMIC CHIP 0.1µF 25V L7907 1-414-75	•
C7915 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V L7908 1-414-75	54-11 INDUCTOR 10µH
C7916 1-164-156-11 CERAMIC CHIP 0.1µF 25V <u>TRANSI</u>	STOR
C7917 1-126-947-11 ELECT 47µF 20% 35V	
C7918 1-164-156-11 CERAMIC CHIP 0.1µF 25V Q7900 8-719-01	
C7923 1-164-156-11 CERAMIC CHIP 0.1µF 25V Q7901 8-719-01	
C7924 1-164-156-11 CERAMIC CHIP 0.1µF 25V Q7902 8-729-03 Q7903 8-729-03	
C7925 1-164-156-11 CERAMIC CHIP 0.1µF 25V	57 62 TITATION TOTAL 20022100-WIN(TA).30
C7926 1-104-130-11 ELECT 100µF 20% 25V RESISTO	OR
C7927 1-164-156-11 CERAMIC CHIP 0.1µF 25V	
C7928 1-127-692-11 CERAMIC CHIP 10µF 10% 16V R7900 1-216-82	
C7929 1-128-551-11 FLECT 22uF 20% 63V R/901 1-210-84	
R7902 1-216-82	21-11 METAL CHIP 1K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	VALU	IFS		REF.NO	D. PART NO.	DESCRIPTION	VALU	FS	
R7903	1-216-864-11	SHORT CHIP	17120			C7304	1-125-827-91	CERAMIC CHIP	1μF	10%	25V
R7904	1-216-864-11	SHORT CHIP				C7305	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
11.001	1210 001 11	GITOTAT GITIII				0,000	1 102 010 11	02.0 111110 01111	0.01	1070	201
R7907	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7306	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R7908	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7307	1-125-827-91	CERAMIC CHIP	1μF	10%	25V
R7909	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7308	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R7910	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7309	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R7927	1-216-801-11	METAL CHIP	22	5%	1/10W	C7310	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R7928	1-216-801-11	METAL CHIP	22	5%	1/10W	C7311	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R7930	1-216-801-11	METAL CHIP	22	5%	1/10W	C7312	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R7931	1-216-809-11	METAL CHIP	100	5%	1/10W	C7313	1-164-346-11	CERAMIC CHIP	1µF		16V
R7932	1-216-809-11	METAL CHIP	100	5%	1/10W	C7314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R7934	1-216-801-11	METAL CHIP	22	5%	1/10W	C7315	1-164-346-11	CERAMIC CHIP	1µF		16V
R7935	1-216-801-11	METAL CHIP	22	5%	1/10W	C7316	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
R7936	1-216-817-11	METAL CHIP	470	5%	1/10W	C7317	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
R7937	1-216-841-11	METAL CHIP	47K	5%	1/10W	C7318	1-100-118-21	ELECT CHIP	82pF	20%	16V
R7938	1-216-817-11	METAL CHIP	470	5%	1/10W	C7319	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
R7939	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C7320	1-100-118-21	ELECT CHIP	82pF	20%	16V
D7040	4 040 047 44	METAL OLUB	470	<b>5</b> 0/	4/40\4/	07004	4 404 450 44	OFDAMIO OLUB	0.4 5		05) (
R7940	1-216-817-11	METAL CHIP	470	5%	1/10W	C7321	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V
R7941	1-216-805-11	METAL CHIP	47 47	5%	1/10W	C7322	1-137-897-21	ELECT CHIP	150µF	20%	4V
R7943	1-216-805-11	METAL CHIP	47	5%	1/10W	C7323	1-137-897-21	ELECT CHIP	150µF	20%	4V
R7944 R7945	1-216-805-11 1-216-809-11	METAL CHIP	47 100	5% 5%	1/10W 1/10W	C7326 C7327	1-137-897-21	ELECT CHIP CERAMIC CHIP	150µF	20% 10%	4V 6.3V
K/940	1-210-009-11	METAL CHIP	100	370	1/1000	6/32/	1-125-837-91	CERAIVIIC CHIP	1µF	1070	0.37
R7947	1-216-864-11	SHORT CHIP				C7328	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
R7948	1-216-864-11	SHORT CHIP				C7329	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
R7949	1-216-864-11	SHORT CHIP				C7330	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
R7950	1-216-864-11	SHORT CHIP				C7331	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
						C7332	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	<u>TUNER</u>								'		
						C7333	1-164-156-11	CERAMIC CHIP	0.1µF		25V
TU7900	8-598-647-00	TUNER UNIT, DIGITA	L BTD-UA40	D2SC		C7334	1-164-156-11	CERAMIC CHIP	0.1µF		25V
						C7335	1-127-692-11	CERAMIC CHIP	10μF	10%	16V
	Ī					C7336	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
$\mathbf{W}^{IV}$						C7337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	— Due to the comp	lexity of this board,	norformin	.a .amn	onont						
		s is not recommend				C7338	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		alfunctioned, the C				C7339	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		A) must be replaced	•			C7340	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		for reference only.				C7341	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
						C7342	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
	* A-1302-554-A	QM BOARD, COM	PLETE								
						C7343	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
	<u>CAPACITOR</u>					C7344	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C7204	1 165 044 04	CEDAMIC CLUD	221.1	100/	16\/	C7345	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C7301	1-165-811-91	CERAMIC CHIP	22µF	10%	16V	C7346	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C7302	1-164-346-11	CERAMIC CHIP	1µF		16V	C7347	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V

16V

CERAMIC CHIP

C7303

1-164-346-11

1µF



REF.NO.	PART NO.	DESCRIPTION	VALUE	S_			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C7348	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7392	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7349	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7393	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7350	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7394	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C7351	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7395	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7352	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7396	1-164-156-11	CERAMIC CHIP	0.1µF		25V
0.00=		000 0	0.0 .p.				0.000		0	٠١٣٠		
C7353	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7397	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C7354	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7398	1-164-156-11	CERAMIC CHIP	0.1µF	1070	25V
C7355	1-164-156-11	CERAMIC CHIP	0.1μF	1070	25V		C7399	1-125-837-91	CERAMIC CHIP	0.1μΓ 1μF	10%	6.3V
C7356	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7400	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	
07000	1 127 002 11	OLIV WINO OTH	ισμι	10 /0	101		01400	1 102 310 11	OLI WINIO OTIII	орі	0.20pi	00 V
C7357	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7358	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7402	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7359	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7360	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7404	1-162-911-11	CERAMIC CHIP	6pF	0.50pF	
C7361	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7405	1-164-156-11	CERAMIC CHIP	0.1μF	0.0001	25V
01001	1 101 100 11	OLIV WING OTH	υ. ιμι		201		07 100	1 101 100 11	OLI WINIO OTIII	υ. ιμι		201
C7362	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7406	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7363	1-164-156-11	CERAMIC CHIP	0.1μF		25V		C7407	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7364	1-164-156-11	CERAMIC CHIP	0.1μF		25V		C7408	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7365	1-125-837-91	CERAMIC CHIP	0.1μΓ 1μF	10%	6.3V		C7409	1-164-156-11	CERAMIC CHIP	0.1µF	1070	25V
C7366	1-123-697-91	CERAMIC CHIP	10μF	10%	16V		C7409	1-164-156-11	CERAMIC CHIP	0.1μΓ 0.1μF		25V
07300	1-121-032-11	OLIVAIVIIO OFIII	ισμι	10 /0	10 V		0/410	1-104-150-11	CLIVAIVIIC CI III	υ. τμι		231
C7367	1-127-692-11	CERAMIC CHIP	10µF	10%	16V		C7411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7368	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7412	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7369	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7413	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C7370	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7371	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7415	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C7372	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7416	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C7373	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7417	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C7374	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7418	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C7375	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7419	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C7376	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7420	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7377	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7378	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7379	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C7423	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7380	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7381	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7425	1-164-156-11	CERAMIC CHIP	0.1µF		25V
										· r		
C7382	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7383	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7428	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C7384	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C7429	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C7385	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C7430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7386	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C7431	1-164-156-11	CERAMIC CHIP	0.1µF		25V
			•							•		
C7387	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7432	1-127-692-11	CERAMIC CHIP	10μF	10%	16V
C7388	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7389	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7434	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7390	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7435	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7391	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7436	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
						I						



REF.NO.	PART NO.	DESCRIPTION	VALUE	:S			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
C7437	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7482	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C7438	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7483	1-164-346-11	CERAMIC CHIP	1μF		16V
C7439	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7484	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7440	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7485	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7441	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7486	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
			•							•		
C7442	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7487	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7488	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7444	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7489	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7445	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7491	1-124-779-00	ELECT CHIP	10μF	20%	16V
C7446	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7492	1-124-779-00	ELECT CHIP	10μF	20%	16V
C7447	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7494	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C7448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7495	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C7449	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7496	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C7450	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7497	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C7451	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7498	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7452	1-127-692-11	CERAMIC CHIP	10μF	10%	16V		C7499	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7453	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7501	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7454	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7502	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7455	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7503	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7456	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7504	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7457	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7506	1-117-681-11	ELECT CHIP	100µF	20%	16V
C7458	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7509	1-117-681-11	ELECT CHIP	100µF	20%	16V
C7459	1-127-692-11	CERAMIC CHIP	10µF	10%	16V		C7511	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C7460	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7528	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C7461	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7532	1-117-681-11	ELECT CHIP	100µF	20%	16V
C7462	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7539	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7463	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7540	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7464	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C7541	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7465	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C7542	1-164-156-11	CERAMIC CHIP	0.1µF		25V
07100	4 400 070 44	0504440 0140	0.04 5	400/	051/							
C7466	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V			<u>CONNECTOR</u>				
C7467	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	*	CN7300	1-816-598-11	PIN, CONNECTOR		12P	
C7468	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	*	CN7303	1-817-702-11	CONNECTOR, BOARD	TO BOARD	4P	
C7469	1-164-156-11	CERAMIC CHIP	0.1µF		25V	*	CN7305	1-817-717-11	CONNECTOR, BOARD			
C7470	1-164-156-11	CERAMIC CHIP	0.1µF		25V	*	CN7306	1-817-701-11	CONNECTOR, BOARD			
07470	4 404 450 44	OEDAMIO OLUD	0.4		05\/	*	CN7308	1-817-718-11	CONNECTOR, BOARD			
C7472	1-164-156-11	CERAMIC CHIP	0.1μF	200/	25V				·			
C7473	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		CN7309	1-815-468-11	PIN, CONNECTOR (PC	BOARD)		
C7474	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	*	CN7310	1-793-141-21	PIN, CONNECTOR (PC	BOARD)	15P	
C7475	1-126-204-11	ELECT CHIP	47µF	20%	16V		CN7311	1-785-842-11	CONNECTOR, USB (VE		PE)	
C7476	1-162-923-11	CERAMIC CHIP	47pF	5%	50V				, (		,	
C7477	1_162 022 11	CERAMIC CHIP	47nF	E0/.	50V			DIODE				
C7477 C7478	1-162-923-11	CERAMIC CHIP	47pF	5% 5%	50V 50V		D#000		DIODE			
C7478 C7479	1-162-923-11		47pF 47pF		50V 50V		D7300	8-719-404-50	DIODE	MA111-TX		
C7479 C7480	1-162-923-11	CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	1	D7301	8-719-404-50	DIODE	MA111-TX		
C7481	1-162-923-11 1-162-923-11	CERAMIC CHIP	47pF 47pF	5% 5%	50V 50V	1	D7302	8-719-404-50	DIODE	MA111-TX		
0/401	1-102-923-11	CERAWIO CHIP	41 hr	J 70	50 V		D7303	8-719-404-50	DIODE	MA111-TX		



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
D7304	8-719-404-50	DIODE	MA111-TX	IC7312	6-703-048-01	IC	XC6209B182MR
D7305	8-719-404-50	DIODE	MA111-TX	IC7313	6-703-048-01	IC	XC6209B182MR
D7306	8-719-060-99	DIODE	SML-210MT-T86	IC7314	6-703-048-01	IC	XC6209B182MR
D7308	8-719-988-61	DIODE	1SS355TE-17				
D7309	8-719-048-40	DIODE	MBRS140T3	IC7315	8-759-698-08	IC	SN74CBTLV1G125DCKR
D7310	8-719-048-40	DIODE	MBRS140T3	IC7316	8-759-694-36	IC	SN74CBTLV3257PWR
				IC7317	8-759-058-54	IC	TC7S00FU(TE85R)
	FERRITE BEAD			IC7318	6-704-621-01	IC	TC58128AFT
				IC7319	6-704-621-01	IC	TC58128AFT
FB7300	1-400-089-21	FERRITE	0μΗ	10.0.0	0.0.02.0.		
FB7301	1-400-089-21	FERRITE	0μΗ	IC7320	6-703-866-01	IC	M25P10-AVMN6T
FB7302	1-469-835-21	FERRITE	0μΗ	IC7322	6-704-849-01	IC	MT46V8M16P-6T
FB7303	1-500-241-22	FERRITE	0μΗ	IC7323	6-704-849-01	IC	MT46V8M16P-6T
FB7304	1-469-835-21	FERRITE	0μΗ	IC7324	6-704-849-01	IC	MT46V8M16P-6T
				IC7325	6-704-849-01	IC	MT46V8M16P-6T
FB7305	1-469-835-21	FERRITE	0μΗ	107323	0-704-043-01	10	WITTOVOIWITOL TOT
FB7306	1-414-229-11	FERRITE	0μΗ	IC7326	6-702-688-01	IC	M24C64-WMN6T(B)
FB7307	1-414-229-11	FERRITE	0μΗ	IC7320	6-704-819-01	IC	CS4335-KSZR
FB7308	1-469-835-21	FERRITE	0μΗ	IC7327	8-759-672-72	IC	LM3526MX-H
FB7309	1-414-229-11	FERRITE	θμΗ			IC	
			·	IC7335 IC7336	8-759-592-47		TC7SZ08FU(TE85R)
FB7310	1-414-229-11	FERRITE	0μΗ		8-759-592-47	IC	TC7SZ08FU(TE85R)
FB7311	1-414-229-11	FERRITE	0μΗ	IC7337	8-759-592-50	IC	TC7SZ126FU(TE85R)
FB7312	1-414-229-11	FERRITE	0μΗ		0011		
FB7315	1-469-835-21	FERRITE	0μH		COIL		
FB7317	1-400-089-21	FERRITE	0μH	L7300	1-469-349-11	INDUCTOR	1μH
			· r	L7301	1-416-948-21	INDUCTOR	10µH
FB7318	1-400-089-21	FERRITE	0μH	L7302	1-419-491-21	INDUCTOR	10µH
FB7319	1-216-295-91	SHORT CHIP	· [-··	L7303	1-414-751-11	INDUCTOR	1μH
FB7321	1-469-835-21	FERRITE	OμH	L7304	1-410-989-11	INDUCTOR	0.47µH
FB7322	1-469-835-21	FERRITE	0μH				• • • • • • • • • • • • • • • • • • • •
FB7323	1-469-835-21	FERRITE	0μH	L7305	1-410-989-11	INDUCTOR	0.47µH
. 2. 020			٠۴	L7306	1-410-989-11	INDUCTOR	0.47µH
	<u>FILTER</u>			L7307	1-410-989-11	INDUCTOR	0.47µH
	<u></u>			L7308	1-410-989-11	INDUCTOR	0.47µH
FL7300	1-781-667-22	INDUCTOR	0μΗ	L7309	1-410-989-11	INDUCTOR	0.47µH
				L7312	1-414-751-11	INDUCTOR	1μH
	<u>IC</u>			2.0.2		mibooron.	· [61]
107200	C 704 C00 04	10	215H25AKA13G		TRANSISTOR		
IC7300	6-704-629-01	IC			TIG III OIO TOIX		
IC7301	6-703-182-01	IC	IRU3037CS	Q7300	8-729-422-27	TRANSISTOR	2SD601A-Q
IC7302	6-703-182-01	IC	IRU3037CS	Q7301	8-729-422-27	TRANSISTOR	2SD601A-Q
IC7303	8-759-592-47	IC	TC7SZ08FU(TE85R)	Q7302	8-729-422-27	TRANSISTOR	2SD601A-Q
IC7304	8-759-592-47	IC	TC7SZ08FU(TE85R)	Q7303	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
107005	0.704.440.04	10	TD00000 00DD\/D	Q7304	8-729-422-27	TRANSISTOR	2SD601A-Q
IC7305	6-701-116-01	IC	TPS3823-33DBVR	Q7305	8-729-422-27	TRANSISTOR	2SD601A-Q
IC7306	8-729-044-83	TRANSISTOR	IRF7313-TR				
IC7307	8-729-044-83	TRANSISTOR	IRF7313-TR		RESISTOR		
IC7308	8-759-538-95	IC	TC74LVX08FT(EL)				
IC7309	6-704-622-01	IC	PQ015Y3H3ZP	R7300	1-216-864-11	SHORT CHIP	
				R7301	1-216-864-11	SHORT CHIP	
IC7310	6-703-048-01	IC	XC6209B182MR	R7303	1-216-845-11	METAL CHIP	100K 5% 1/10W
IC7311	6-703-048-01	IC	XC6209B182MR				
				1			



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
R7304	1-216-809-11	METAL CHIP	100	5%	1/10W	R7355	1-216-801-11	METAL CHIP	22	5%	1/10W
R7305	1-216-809-11	METAL CHIP	100	5%	1/10W	R7356	1-216-857-11	METAL CHIP	1M	5%	1/10W
R7306	1-216-864-11	SHORT CHIP				R7357	1-216-801-11	METAL CHIP	22	5%	1/10W
R7307	1-216-864-11	SHORT CHIP				R7358	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7308	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R7359	1-216-864-11	SHORT CHIP			
R7309	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R7360	1-216-864-11	SHORT CHIP			
R7310	1-216-801-11	METAL CHIP	22	5%	1/10W	R7361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7311	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7312	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W	R7364	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7313	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W						
R7314	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R7366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7315	1-216-864-11	SHORT CHIP				R7368	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7316	1-216-864-11	SHORT CHIP				R7370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7317	1-216-809-11	METAL CHIP	100	5%	1/10W	R7374	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7375	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7318	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R7319	1-216-838-11	METAL CHIP	27K	5%	1/10W	R7378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7320	1-216-864-11	SHORT CHIP				R7379	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7321	1-216-809-11	METAL CHIP	100	5%	1/10W	R7381	1-216-864-11	SHORT CHIP			
R7322	1-216-801-11	METAL CHIP	22	5%	1/10W	R7382	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7384	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7324	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R7326	1-216-809-11	METAL CHIP	100	5%	1/10W	R7385	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7328	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7329	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R7387	1-216-801-11	METAL CHIP	22	5%	1/10W
R7330	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R7388	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7389	1-216-809-11	METAL CHIP	100	5%	1/10W
R7332	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R7333	1-216-864-11	SHORT CHIP				R7390	1-216-809-11	METAL CHIP	100	5%	1/10W
R7335	1-216-801-11	METAL CHIP	22	5%	1/10W	R7391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7336	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7392	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7337	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7393	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R7400	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7338	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R7339	1-216-809-11	METAL CHIP	100	5%	1/10W	R7401	1-218-667-11	METAL CHIP	91		1/10W
R7340	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7402	1-218-667-11	METAL CHIP	91		1/10W
R7342	1-216-801-11	METAL CHIP	22	5%	1/10W	R7403	1-218-692-11	METAL CHIP	1K		1/10W
R7343	1-216-801-11	METAL CHIP	22	5%	1/10W	R7404	1-218-692-11	METAL CHIP	1K		1/10W
D=0.45	1 010 001 11	OLIOPT OLUP				R7405	1-216-801-11	METAL CHIP	22	5%	1/10W
R7345	1-216-864-11	SHORT CHIP				D7400	1 010 001 11	METAL OLUB	00	=0/	4/4014
R7346	1-216-864-11	SHORT CHIP				R7406	1-216-801-11	METAL CHIP	22	5%	1/10W
R7347	1-216-864-11	SHORT CHIP				R7407	1-216-801-11	METAL CHIP	22	5%	1/10W
R7348	1-216-864-11	SHORT CHIP				R7408	1-216-801-11	METAL CHIP	22	5%	1/10W
R7349	1-216-864-11	SHORT CHIP				R7410	1-216-801-11	METAL CHIP	22	5%	1/10W
D7050	4 040 004 44	CHODT CHID				R7411	1-216-801-11	METAL CHIP	22	5%	1/10W
R7350	1-216-864-11	SHORT CHIP				D7449	1 216 002 11	METAL CUID	22	E0/	1/10\\\
R7351	1-216-864-11	SHORT CHIP				R7413	1-216-803-11	METAL CHIP	33	5% 5%	1/10W
R7352	1-216-864-11	SHORT CHIP				R7414	1-216-803-11	METAL CHIP	33 33	5% 5%	1/10W
R7353 R7354	1-216-864-11	SHORT CHIP				R7415 R7416	1-216-803-11	METAL CHIP	33 33	5% 5%	1/10W
K/ 304	1-216-864-11	SHORT CHIP				R7416	1-216-803-11 1-216-803-11	METAL CHIP METAL CHIP	33 33	5% 5%	1/10W 1/10W
					1	1 <b>57</b> —	1-210-003-11	IVIL IAL VIIIF	JJ	J /0	1/ 1000



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R7418	1-216-803-11	METAL CHIP	33	5%	1/10W	R7466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7419	1-216-803-11	METAL CHIP	33	5%	1/10W	R7468	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7420	1-216-803-11	METAL CHIP	33	5%	1/10W	R7469	1-216-837-11	METAL CHIP	22K	5%	1/10W
R7421	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7470	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7422	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7471	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7423	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7472	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7424	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7473	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7474	1-218-665-11	METAL CHIP	75		1/10W
R7426	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7475	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7427	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7476	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7428	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7477	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R7429	1-216-809-11	METAL CHIP	100	5%	1/10W	R7478	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R7430	1-216-809-11	METAL CHIP	100	5%	1/10W	R7479	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R7431	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7480	1-218-665-11	METAL CHIP	75		1/10W
R7432	1-216-864-11	SHORT CHIP				R7481	1-218-665-11	METAL CHIP	75		1/10W
R7433	1-216-864-11	SHORT CHIP				R7482	1-218-665-11	METAL CHIP	75		1/10W
R7434	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7483	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7435	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7484	1-216-850-11	METAL CHIP	270K	5%	1/10W
R7436	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7485	1-216-850-11	METAL CHIP	270K	5%	1/10W
R7437	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7486	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7438	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7487	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7439	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7488	1-216-818-11	METAL CHIP	560	5%	1/10W
R7440	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7489	1-216-818-11	METAL CHIP	560	5%	1/10W
R7441	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7490	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7442	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7443		METAL CHIP	2.2K	5%	1/10W	R7493	1-216-809-11	METAL CHIP	100	5%	1/10W
N/443	1-216-825-11	WIETAL CHIP	2.21\	370	17 10 00	17493	1-210-003-11	WIL TAL CITIF	100	3 /0	1/1000
R7444	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R7494	1-216-809-11	METAL CHIP	100	5%	1/10W
R7445	1-216-864-11	SHORT CHIP				R7497	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7448	1-216-864-11	SHORT CHIP				R7498	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7451	1-216-864-11	SHORT CHIP				R7499	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7452	1-216-801-11	METAL CHIP	22	5%	1/10W	R7500	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7453	1-216-801-11	METAL CHIP	22	5%	1/10W	R7501	1-216-841-11	METAL CHIP	47K	5%	1/10W
R7454	1-216-864-11	SHORT CHIP	22	J /0	1/1000	R7502	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7455	1-216-809-11		100	5%	1/10W	R7502	1-216-821-11		1K	5%	1/10W
		METAL CHIP						METAL CHIP	IIX	370	1/1000
R7456	1-216-801-11	METAL CHIP	22	5% 5%	1/10W	R7504	1-216-864-11	SHORT CHIP	401/	F0/	4/40\\
R7457	1-216-845-11	METAL CHIP	100K	5%	1/10W	R7505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7458	1-216-845-11	METAL CHIP	100K	5%	1/10W	R7506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7459	1-216-801-11	METAL CHIP	22	5%	1/10W	R7507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7460	1-216-821-11	METAL CHIP	1K	5%	1/10W	R7508	1-216-864-11	SHORT CHIP			
R7461	1-216-845-11	METAL CHIP	100K	5%	1/10W	R7509	1-216-801-11	METAL CHIP	22	5%	1/10W
R7462	1-218-690-11	METAL CHIP	820		1/10W	R7510	1-216-833-11	METAL CHIP	10K	5%	1/10W
D7400	4 040 000 11	METAL CLUB	000	0.500/	4 (4 0 ) 4 (	D7540	4 040 004 44	OLIODE CLUB			
R7463	1-218-690-11	METAL CHIP	820		1/10W	R7512	1-216-864-11	SHORT CHIP			
R7464	1-218-708-11	METAL CHIP	4.7K		1/10W	R7513	1-216-864-11	SHORT CHIP			
R7465	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R7514	1-216-864-11	SHORT CHIP			
					<b>—</b> 1	58 —					



REF.NO.	PART NO.	DESCRIPTION	VALU	ES			REF.NO.	PART NO.	DESCRIPTION	VALUES
R7515	1-216-864-11	SHORT CHIP				F	RB7318	1-234-370-21	RES, NETWORK 22X4	(1005)
R7516	1-216-864-11	SHORT CHIP				F	RB7319	1-234-370-21	RES, NETWORK 22X4	(1005)
						F	RB7320	1-234-370-21	RES, NETWORK 22X4	(1005)
R7517	1-216-835-11	METAL CHIP	15K	5%	1/10W				·	, ,
R7518	1-216-835-11		15K	5%	1/10W	F	RB7321	1-234-370-21	RES, NETWORK 22X4	(1005)
R7519	1-216-835-11		15K	5%	1/10W		RB7322	1-234-370-21	RES, NETWORK 22X4	(1005)
R7520	1-216-835-11		15K	5%	1/10W		RB7323	1-234-370-21	RES, NETWORK 22X4	(1005)
							RB7324	1-234-370-21	RES, NETWORK 22X4	(1005)
R7543	1-216-833-11	METAL CHIP	10K	5%	1/10W				0,	(1555)
R7546	1-216-864-11	SHORT CHIP		0,0		F	RB7325	1-234-370-21	RES, NETWORK 22X4	(1005)
R7547	1-216-864-11	SHORT CHIP					RB7326	1-234-370-21	RES, NETWORK 22X4	(1005)
R7549	1-216-801-11		22	5%	1/10W		RB7327	1-234-370-21	RES, NETWORK 22X4	(1005)
R7550	1-216-801-11		22	5%	1/10W		RB7328	1-234-370-21	RES, NETWORK 22X4	(1005)
117000	1 210 001 11	ME I/LE OTTI		070	171011		RB7329	1-242-963-21	RES, NETWORK 33X4	(1005)
R7551	1-216-801-11	METAL CHIP	22	5%	1/10W	1 '	(D1020	1 242 300 21	TLO, NETWORK 00/14	(1000)
R7552	1-216-801-11		22	5%	1/10W		RB7330	1-242-963-21	RES, NETWORK 33X4	(1005)
R7554	1-216-809-11		100	5%	1/10W		RB7331	1-242-963-21	RES, NETWORK 33X4	(1005)
R7556			2.2K	5%	1/10W		RB7332			
	1-216-825-11							1-242-963-21	RES, NETWORK 33X4	(1005)
R7557	1-216-833-11	METAL CHIP	10K	5%	1/10W		RB7333	1-242-963-21	RES, NETWORK 33X4	(1005)
D7550	1 010 000 11	METAL CLUD	100	F0/	4/40\4/		RB7334	1-242-963-21	RES, NETWORK 33X4	(1005)
R7558	1-216-809-11		100	5%	1/10W	١ ,	D700E	4 040 000 04	DEC NETWORK 20V4	(4005)
R7559	1-216-833-11		10K	5%	1/10W		RB7335	1-242-963-21	RES, NETWORK 33X4	(1005)
R7562	1-216-801-11		22	5%	1/10W		RB7336	1-242-963-21	RES, NETWORK 33X4	(1005)
R7563	1-216-801-11		22	5%	1/10W		RB7337	1-242-963-21	RES, NETWORK 33X4	(1005)
R7564	1-216-864-11	SHORT CHIP					RB7338	1-242-963-21	RES, NETWORK 33X4	(1005)
							RB7339	1-242-963-21	RES, NETWORK 33X4	(1005)
R7565	1-216-864-11	SHORT CHIP								
R7566	1-216-864-11	SHORT CHIP					RB7340	1-242-963-21	RES, NETWORK 33X4	(1005)
R7567	1-216-864-11	SHORT CHIP					RB7341	1-242-963-21	RES, NETWORK 33X4	(1005)
R7568	1-216-864-11	SHORT CHIP					RB7342	1-242-963-21	RES, NETWORK 33X4	(1005)
R7569	1-216-864-11	SHORT CHIP					RB7343	1-242-963-21	RES, NETWORK 33X4	(1005)
						F	RB7344	1-242-963-21	RES, NETWORK 33X4	(1005)
R7570	1-216-864-11	SHORT CHIP								
R7571	1-216-864-11	SHORT CHIP					RB7345	1-234-370-21	RES, NETWORK 22X4	(1005)
R7572	1-216-864-11	SHORT CHIP					RB7346	1-234-370-21	RES, NETWORK 22X4	(1005)
R7573	1-216-864-11	SHORT CHIP					RB7347	1-234-370-21	RES, NETWORK 22X4	(1005)
						F	RB7348	1-234-370-21	RES, NETWORK 22X4	(1005)
	RESISTOR BRID	<u>DGE</u>				F	RB7349	1-234-370-21	RES, NETWORK 22X4	(1005)
DD7200	1-234-370-21	RES, NETWORK 22X4		/1005	١					
RB7300 RB7301	1-234-370-21	RES, NETWORK 22X4		(1005		F	RB7350	1-234-370-21	RES, NETWORK 22X4	(1005)
		•		(1005		F	RB7351	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7302	1-234-370-21	RES, NETWORK 22X4		(1005		F	RB7352	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7303	1-234-370-21	RES, NETWORK 22X4		(1005		F	RB7353	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7304	1-234-370-21	RES, NETWORK 22X4		(1005	)	F	RB7354	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7305	1-234-370-21	RES, NETWORK 22X4		(1005			RB7355	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7306	1-234-370-21	RES, NETWORK 22X4		(1005	)		RB7356	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7307	1-234-370-21	RES, NETWORK 22X4		(1005	)		RB7357	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7308	1-236-908-11	NETWORK RESISTOR(C	CHIP)	10K			RB7360	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7315	1-236-908-11	NETWORK RESISTOR(C	CHIP)	10K			RB7361	1-234-370-21	RES, NETWORK 22X4	(1005)
RB7316	1-236-908-11	NETWORK RESISTOR(C	CHIP)	10K						
RB7317	1-234-370-21	RES, NETWORK 22X4	/	(1005	١					
ווטוטוו	1-20 <del>1-</del> 010-21	NEO, INC. WONK 22/4		(1000)	1	1				



	REF.NO.	PART NO.	DESCRIPTION	VALUI	ES			REF.NO.	. PART NO.	DESCRIPTION	VALU	ES	
	RB7362	1-234-370-21	RES, NETWORK 22X4		(1005)			S1206	1-572-198-11	SWITCH, KEYBOARD			
	RB7363	1-234-370-21	RES, NETWORK 22X4		(1005)			S1207	1-572-198-11	SWITCH, KEYBOARD			
	RB7364	1-234-370-21	RES, NETWORK 22X4		(1005)					,			
	RB7365	1-234-370-21	RES, NETWORK 22X4		(1005)				ī				
	RB7366	1-234-370-21	RES, NETWORK 22X4		(1005)		H( .	)H					
					(1000)			<u> </u>	<u> </u>				
	RB7367	1-234-370-21	RES, NETWORK 22X4		(1005)				Due to the comp	lexity of this board, po	erforming	comp	onent
	RB7368	1-234-370-21	RES, NETWORK 22X4		(1005)					s is not recommended			
	RB7369	1-234-370-21	RES, NETWORK 22X4		(1005)					replacement is the profession for reference only.	eferred re	pair me	thod.
		CRYSTAL							-	-			
	X7300	1-579-922-11	VIBRATOR, CRYSTAL (	CHIP TYP	'E)				A-1302-165-A	QH BOARD, COMPI	-EIE		
П	IA								CAPACITOR				
	7/4							C7203	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
*		A-1405-082-A	HA BOARD, MOUNT	FD				C7204	1-162-911-11	CERAMIC CHIP	6pF	0.50pF	
		A-1403-002-A	TIA BOARD, WOON	LU				C7205	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		CAPACITOR						C7206	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		<u>OAI AOITON</u>						C7207	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1201	1-126-157-11	ELECT	10μF	20%	16V							
								C7208	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		<u>CONNECTOR</u>						C7209	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
*	CN1201	1-564-525-11	PLUG, CONNECTOR	10P				C7210	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	CIVIZUI	1-304-323-11	FLUG, CONNECTOR	IUF				C7211	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
		DIODE						C7212	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
	D1201	8-719-061-96	DIODE	SLR-325	SDCT31			C7213	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	D1202	8-719-053-43	DIODE	SLR-325				C7215	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		0 1 10 000 10	2.022	02.102				C7216	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		<u>IC</u>						C7217	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
		<u></u>						C7218	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	IC1201	8-742-211-20	HYB IC	SBX307	1-71						·		
								C7219	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		RESISTOR						C7220	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R1201	1-216-809-11	METAL CHIP	100	5%	1/10W		C7221	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R1202	1-216-817-11	METAL CHIP	470	5%	1/10W		C7224	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	R1203	1-216-819-11	METAL CHIP	680	5%	1/10W							
	R1204	1-216-821-11	METAL CHIP	1K	5%	1/10W			<u>CONNECTOR</u>				
	R1205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	*	CN7201	1 704 010 11	CONNECTOD LICE (D)			
								CN7201	1-784-010-11 1-695-915-11	CONNECTOR, USB (B) TAB (CONTACT)			
	R1206	1-216-813-11	METAL CHIP	220	5%	1/10W		CN7202 CN7204		CONNECTOR, MEMOR	V CTICK		
	R1207	1-216-813-11	METAL CHIP	220	5%	1/10W		CIN7 204	1-816-402-12	CONNECTOR, WEWOR	AT STICK		
	R1208	1-216-797-11	METAL CHIP	10	5%	1/10W			DIODE				
	R1209	1-216-837-11	METAL CHIP	22K	5%	1/10W			DIODE				
								D7201	8-719-800-76	DIODE	1SS226		
		<u>SWITCH</u>						D7202	8-719-083-58	DIODE	UDZSTE-		
	S1201	1-572-198-11	SWITCH, KEYBOARD					D7210	6-500-182-01	DIODE	L1503CB		
	S1202	1-572-198-11	SWITCH, KEYBOARD					D7212	8-719-083-58	DIODE	UDZSTE-	-113.9B	
	S1202	1-572-198-11	SWITCH, KEYBOARD										
	S1203	1-572-198-11	SWITCH, KEYBOARD										
	S1204 S1205	1-572-198-11	SWITCH, KEYBOARD										
	01200	1-014-130-11	OWITOII, ILL IDOAND				1						



REF.NO.	PART NO.	DESCRIPTION	VALUE	s			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	FERRITE BEAD							CRYSTAL				
FB7201	1-414-921-11	FERRITE	0μΗ				X7201	1-760-965-21	VIBRATOR, CRYSTAL			
FB7202	1-414-921-11	FERRITE	0μΗ						,			
FB7203	1-414-921-11	FERRITE	0μΗ			(	C					
			·				<u> </u>					
	<u>IC</u>								exity of this board, p			
IC7201	6-703-076-01	IC	XC6204B	332MR					is not recommended replacement is the pre			
IC7202	6-704-548-01	IC	90C36LC						for reference only.	elelleu le	pair ille	tiiou.
IC7203	6-700-319-01	IC	M24128-E					Data is provided	ioi reierence omy.			
							•	* A-1405-083-A	SR BOARD, MOUNT	ΓED		
	<u>COIL</u>											
L7201	1-414-394-11	INDUCTOR	2.2µH					CONNECTOR				
L/201	1-414-334-11	INDUCTOR	2.2μ11			*	CN9901	1-564-506-11	PLUG, CONNECTOR	3P		
	TRANSISTOR								,			
								DIODE				
Q7201	8-729-424-02	TRANSISTOR	2SB709A				D0001	0.710.026.04	DIODE	DDE 60D	T4	
Q7202	8-729-422-27	TRANSISTOR	2SD601A	-Q			D9901	8-719-036-94	DIODE	RD5.6SB	-11	
	RESISTOR							<u>SWITCH</u>				
	KEOIOTOK											
R7201	1-216-864-11	SHORT CHIP					SB9901	1-477-983-11	PHOTO	SENSOR		
R7202	1-414-228-11	FERRITE	0μΗ			_ ا						
R7203	1-216-837-11	METAL CHIP	22K	5%	1/10W	╙	4 R					
R7204	1-216-809-11	METAL CHIP	100	5%	1/10W	<b>│</b> <u>┃</u>						
R7206	1-216-857-11	METAL CHIP	1M	5%	1/10W			* A-1405-071-A	HB BOARD, MOUNT	ren.		
R7209	1-414-228-11	FERRITE	0μH					A-1400-071-A	TIB BOARD, INCOM			
R7210	1-216-803-11	METAL CHIP	33	5%	1/10W			CAPACITOR				
R7211	1-216-821-11	METAL CHIP	1K	5%	1/10W							
R7212	1-216-803-11	METAL CHIP	33	5%	1/10W		C1100	1-126-960-11	ELECT	1μF	20%	50V
R7214	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		C1101	1-126-960-11	ELECT	1μF	20%	50V
								CONNECTOR				
R7215	1-414-228-11	FERRITE	0μΗ					CONNECTOR				
R7216	1-216-821-11	METAL CHIP	1K	5%	1/10W	*	CN1101	1-564-526-11	PLUG, CONNECTOR	11P		
R7217	1-216-821-11	METAL CHIP	1K	5%	1/10W							
R7218	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W			<u>DIODE</u>				
R7219	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W		D1100	0 710 070 17	DIODE	NNCD40	л Т4	
							D1100	8-719-070-17	DIODE	NNCD10		
R7221	1-216-821-11	METAL CHIP	1K	5%	1/10W		D1101	8-719-070-17	DIODE	NNCD10		
R7222	1-216-811-11	METAL CHIP	150	5%	1/10W		D1103	8-719-070-17	DIODE	NNCD10	A-11	
R7223	1-216-809-11	METAL CHIP	100	5%	1/10W			LAOV				
R7224	1-216-809-11	METAL CHIP	100	5%	1/10W			<u>JACK</u>				
R7225	1-216-809-11	METAL CHIP	100	5%	1/10W		J1101	1-770-361-11	TERMINAL BLOCK, S			
D7006	1 216 064 44	SHORT CHIP										
R7226 R7227	1-216-864-11							RESISTOR				
	1-216-864-11	SHORT CHIP					R1100	1-247-895-91	CARBON	470K	5%	1/4W
R7228	1-216-864-11	SHORT CHIP	11/	E0/	1/10\\		R1101	1-247-895-91	CARBON	470K	5%	1/4W
R7229	1-216-821-11	METAL CHIP	1K	5% 5%	1/10W		R1102	1-247-804-11	CARBON	75	5%	1/4W
R7231	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			. 2.1. 001 11	J. 11 (BOT)	, •	<b>5</b> / 0	

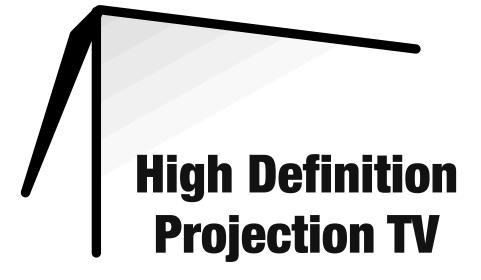


REF.N	O. PART NO.	DESCRIPTION	VALU	ES			REF.NO.	PART NO.	DESCRIPTION	VALUES
R1103	1-247-804-11	CARBON	75	5%	1/4W	*		4-094-652-01	CUSHION, UPPER	
R1106	1-249-417-11	CARBON	1K	5%	1/4W				(KDP-51WS550 ONLY)	
R1107	1-247-804-11	CARBON	75	5%	1/4W	*		4-094-656-01	CUSHION, UPPER	
									(KDP-57WS550 ONLY)	
	<b>ACCESSORIES</b>	AND PACKING				*		4-094-660-01	CUSHION, UPPER	
*	4 0 4 4 4 0 0 0 4	DAG PROTECTION							(KDP-65WS550 ONLY)	
•	4-041-426-01	BAG, PROTECTION	<b>(</b> )							
_	4 070 400 04	(KDP-51WS550 ONL)	·)					4-094-487-11	MANUAL, INSTRUCTION	
*	4-076-420-01	BAG, PROTECTION						4-094-487-21	MANUAL, INSTRUCTION	
		(KDP-57WS550/65WS	5550 ONLY)					4-094-487-31	MANUAL, INSTRUCTION	
*	0.007.400.04	DANID DINIDINIO								
•	3-337-402-01	BAND, BINDING				*		4-042-463-01	SHEET, PROTECTION	
	4 004 047 04	CARTON INDIVIDUA				*		4-094-659-01	TRAY	
•	4-094-817-01	CARTON, INDIVIDUA							(KDP-57WS550 ONLY)	
*	4 004 040 04	(KDP-51WS550 ONL)	,			*		4-094-663-01	TRAY	
*	4-094-818-01	INDIVIDUAL CARTON							(KDP-65WS550 ONLY)	
	4 004 040 04	(KDP-57WS550 ONL)	,					1-827-516-11	USB CABLE	
*	4-094-812-01	INDIVIDUAL CARTON								
		(KDP-65WS550 ONL)	<b>'</b> )					REMOTE COMM	IANDER	
*	4-094-664-01	CUSHION, LOWER						1-468-764-11	REMOTE COMMANDER (	RM-Y192)
		(KDP-51WS550 ONL)	<b>'</b> )					4-081-888-01	BATTERY COVER (FOR F	RM-Y192)
*	4-094-665-01	CUSHION, LOWER	,						,	,
		(KDP-57WS550 ONL)	<b>'</b> )							
*	4-094-666-01	CUSHION, LOWER	,							
		(KDP-65WS550 ONL)	<b>'</b> )							
		,	,							

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.

**SONY**® 4-094-487-11



**Operating Instructions** 

© 2003 Sony Corporation



#### Owner's Record

The model and serial numbers are located at the rear of the projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No.	
Serial No.	

#### WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Do not expose the TV to dripping or splashing. Avoid placing liquid-filled objects, such as vases, on top of the TV.

#### **CAUTION**

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

#### CAUTION

When using Video games, computers, and similar products with your projection TV, or viewing a TV station whose logo always stays on the screen, keep the brightness and picture functions at low settings. If a fixed (non-moving) pattern such as a station logo is left on the screen for long periods of time, especially at a high brightness or picture setting, the image can be permanently imprinted onto the screen. These types of imprints are known as image retention.

#### CAUTION

How to reduce the risk of "Image Retention" on your Projection TV

Bright, stationary images such as TV station logos displayed on your TV can cause permanent damage to your TV, resulting in retention of the image in the picture. Please take the following steps to reduce the risk of causing image retention:

View a variety of program sources or programming material.

Image retention can occur when bright stationary images such as TV station logos are viewed. Changing the program material viewed reduces the possibility that a single image will become imprinted on the picture tubes in your TV.

When viewing programs with stationary images, adjust the picture setting to reduce the "Picture" and "Brightness" levels. Image retention is accelerated by higher "Brightness" and higher "Picture" settings.

Please see page 92 for instructions on adjusting picture settings.

This will help you reduce the risk of causing image retention.

IMAGE RETENTION IS NOT COVERED BY YOUR WARRANTY

### **Note on Caption Vision**

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

### Note on Convergence Adjustment

Before you use your projection TV, make sure to adjust convergence. For details, see "Adjusting the Convergence Automatically (Flash Focus)" on page 42.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

#### NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is

couraged to try to correct the interference by one or more of the llowing measures:
from that to which the receiver is connected.  Consult the dealer or an experienced radio/TV technician for help.
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Safe	ty
	Operate the projection TV only on 120 V AC.
	The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
	If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
	If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
	For details concerning safety precautions, see "Important Safety Instructions" on page 3.
Inst	alling
	To prevent internal heat buildup, do not block the ventilation

a place subject to excessive dust of mechanical vibration.
Avoid operating the projection TV at temperatures below 5°C
(41°F).
If the projection TV is transported directly from a cold to a
warm location, or if the room temperature changes suddenly
the picture may be blurred or show poor color due to
moisture condensation. In this case, please wait a few hours
to let the moisture evaporate before turning on the projection
TV

Do not install the projection TV in a hot or humid place, or in

To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.



As an Energy Star® Partner, Sony has determined that this product meets the Energy Star® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

### **Trademark Information**

TruSurround and the ( ) symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4.482.866.

Steady Sound, Digital Reality Creation, Caption Vision, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. ClearEdge VM, HD Detailer, and Uniform Brightness Screen are trademarks of Sony Corporation. i.LINK is a trademark of Sony Corporation and used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.

### For Safety

Be careful when moving the projection TV

When you place the projection TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the projection TV.



#### Carry the projection TV in the specified manner

If you carry the projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

Carry the projection TV with the specified number of persons
(see "Carrying Your Projection TV" on page 12).

- Do not carry the projection TV holding the speaker grill. Hold the projection TV tightly when carrying it.
- The projection TV includes handles that you can use to carry the unit (KDP-65WS550 only).

## Important Safety Instructions

- Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- **5** Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

### **Additional Cleaning Instructions**

Clean the cabinet of the projection TV with a dry, soft cloth. To clean the screen of your projection TV, please use only a clean, soft cloth lightly dampened with water. Stubborn stains such as fingerprints can be removed with a clean, soft cloth lightly dampened with a solution of mild soap and warm water. Never use alcohol or strong solvents (such as thinner, benzene, ammonia, or alcohol-based), or abrasive cleaning solutions to clean your TV screen.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

## **Contents**

Introducing the Dig	ital Projection TV	
	Welcome	9
	Package Contents	
	Features	9
Setting Up the Digit	tal Proiection TV	
	Overview	11
	Carrying Your Projection TV	
	Installing the TV	
	TV Controls and Connectors	
	Front Video Controls	
	Front Panel	
	Rear Panel	
	Basic Connections: Connecting a Cable or Antenna	18
	Cable or Antenna Only	
	Cable and Antenna Only	
	Cable Box and Cable Only	21
	Cable Box Only	22
	Connecting Optional Equipment	23
	About Using S VIDEO	23
	VCR and Cable	
	VCR and Cable Box	
	Two VCRs for Tape Editing	
	Satellite Receiver	
	Satellite Receiver and VCR	
	DVD Player with Component Video Connectors	34
	DVD Player with S VIDEO and Audio Connectors	
	Camcorder	
	Audio Receiver	
	Connecting a Device with an Optical IN Connector	39
	Using the CONTROL S Feature	
	Setting Up the Channel List	
	Using Auto Program	
	Adjusting the Convergence Automatically (Flash Focus)	
	Notes on Flash Focus	
	Adjusting the Convergence Manually	
	Notes on Adjusting the Convergence Manually	44

	Overview	45
	Inserting Batteries	45
	Button Descriptions	46
	Outside Panel	46
	Inside Panel	
	Programming the Remote Control	
	Using Other Equipment with Your TV Remote Control	
	All Equipment	
	Operating a VCR	
	Operating a Satellite Receiver	
	Operating a Cable Box	
	Operating a DVD Player	
Using the Feat	Operating an MDP (Laserdisc Player)	
Using the Feat	Operating an MDP (Laserdisc Player)  Ures  Overview	5253
Using the Feat	Operating an MDP (Laserdisc Player)  Ures  Overview	525354
Using the Feat	Operating an MDP (Laserdisc Player)  UITES  Overview	52535455
Using the Feat	Operating an MDP (Laserdisc Player)  Ures  Overview  Watching TV  Using the Scrolling Index  Factors Affecting Scrolling Index  Using Wide Mode	5253545555
Using the Feat	Operating an MDP (Laserdisc Player)  Ures  Overview	5253555555
Using the Feat	Operating an MDP (Laserdisc Player)  UIPES  Overview	525355555556
Using the Feat	Operating an MDP (Laserdisc Player)  UIPES  Overview	525355555657
Using the Feat	Operating an MDP (Laserdisc Player)  UIPES  Overview	5253555556575757
Using the Feat	Operating an MDP (Laserdisc Player)  Overview	525355555657575757
Using the Feat	Operating an MDP (Laserdisc Player)  Overview	525355555757575757
Using the Feat	Operating an MDP (Laserdisc Player)  Overview	52535555565757575960

Navigating the Digital Program Menus64Using the Guide Menu64Using the Program Options Menu64Using the Caption Vision Menu65Using the Digital Setup Menu65Customizing Caption Vision66

### **Using the Memory Stick Viewer**

tick viewei	
About Memory Stick	67
Features	
Memory Stick Compatibility	68
File Compatibility	68
Trademark Information	68
Inserting and Removing a Memory Stick	69
Inserting a Memory Stick	
Inserting the Memory Stick Duo	
Removing a Memory Stick	
Using the Memory Stick Index	
Using the Memory Stick Index	
Viewing Photos	
Photo Controls	
Photo Menu Bar Options	
Using Zoom and Pan	
Using Rotate	
Playing Movies	
Movie Controls	
Movie Menu Bar Options	
Memory Stick Index Menu Bar Options	
Slide Show Menu Options	
Folder Menu Options	
Memory Stick Menu	
Notes on Using Memory Stick Media	
About DCF File Names	
Memory Stick Precautions	
About i.LINK	83
Using i.LINK Cables	83
Connecting i.LINK Devices	
Selecting an i.LINK Device	
Using the i.LINK Control Panel	
Notes About Controlling i.LINK Devices	
i.LINK Setup	
Notes on i.LINK	

**Using i.LINK** 

### **Using the Menus**

**Other Information** 

Overview	91
Navigating Through Menus	91
Using the Video Menu	92
Using the Audio Menu	94
Using the Screen Menu	96
Using the Channel Menu	98
Using the Parent Menu	100
Using the Setup Menu	103
Overview	107
Glossary	
Contacting Sony	
Troubleshooting	
Twin View	
Remote Control	
Channels	
Memory Stick	
Audio	
Video	
General	
Specifications	
Ontional Accessories	

## Introducing the Digital Projection TV

### Welcome

This chapter describes the contents of the package in which the TV is shipped and provides an overview of the features of your Digital Projection TV.

### Package Contents

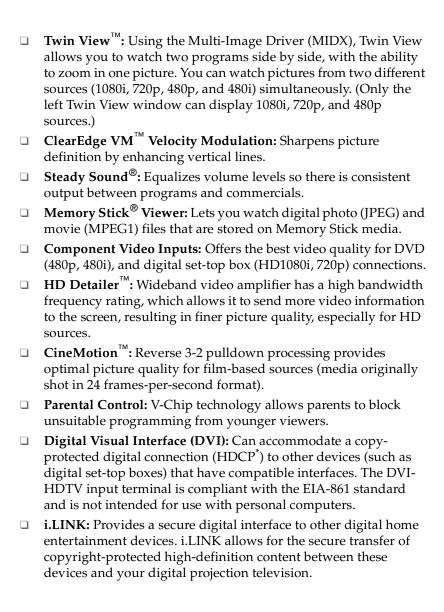
Along with your new projection TV, the package contains a remote control and two AA batteries. No additional cables are included. These items are all you need to set up and operate the projection TV in its basic configuration.

Most components (VCRs, DVD players, etc.) come with the necessary cables to connect them. If you want to set up a complex system, you may need to buy extra cables, connectors, etc. Be sure to have these on hand before you start to connect your system.

#### **Features**

Some of the features that you will enjoy with your new TV include:

- Built-in Digital Television Receiver: You can watch digital television programs and enjoy the improved audio/video quality offered by these programs.
- □ **Wide Screen Mode:** Watch conventional 4:3 aspect ratio broadcasts in wide screen (16:9) mode.
- ☐ **High Definition Signal Reception:** Watch TV signals broadcast in HDTV for the clearest possible broadcast picture.
- □ DRC<sup>®</sup> (Digital Reality Creation) Multifunction V1: Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent, while doubling the number of vertical and horizontal lines. This results in four times the density for quality sources, such as DVD, satellite, and digital camcorders. The Video Menu allows you to select interlaced, progressive, or CineMotion<sup>™</sup> output. The DRC Palette option lets you customize the level of detail (Reality) and smoothness (Clarity) to create up to three custom palettes.
- □ **Scrolling Index:** Lets you select programs from a series of preview windows that scroll along the right side of the screen.
- ☐ **Favorite Channels**: Allows you to preview and select from sixteen of your favorite channels.



<sup>\*</sup>High-bandwidth Digital Content Protection

# Setting Up the Digital Projection TV

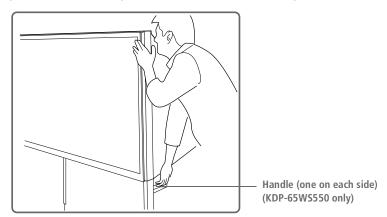
### **Overview**

This chapter includes illustrated instructions for setting up your TV.

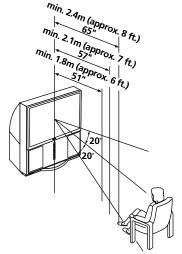
Toute	D=(-)	
Topic	Page(s)	
Carrying Your Projection TV		
Installing the TV	12	
TV Controls and Connectors	13-17	
Basic Connections: Connecting a Cable or Antenna		
Connecting Optional Equipment		
VCR and Cable	24	
VCR and Cable Box	26	
Two VCRs for Tape Editing	28	
Satellite Receiver		
Satellite Receiver and VCR		
DVD Player with Component Video Connectors	34	
DVD Player with S VIDEO and Audio Connectors		
Camcorder		
Audio Receiver		
Connecting a Device with an Optical IN Connector		
Using the CONTROL S Feature		
Setting Up the Channel List	41	
Adjusting the Convergence Automatically (Flash Focus)	42	
Adjusting the Convergence Manually (Manual Convergence)		

### **Carrying Your Projection TV**

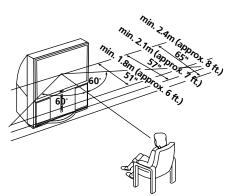
Carrying the TV requires four or more people. The TV is equipped with casters for easy movement on a hard surface. Be sure to move your projection TV using the casters. The TV includes handles that you can use to carry the unit (KDP-65WS550 only).



### Installing the TV



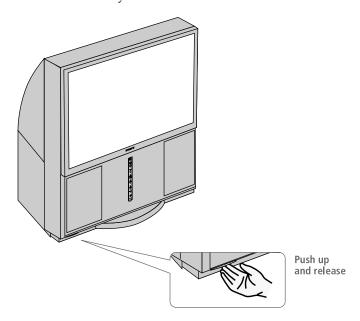
**Recommended Vertical Viewing Angle** 



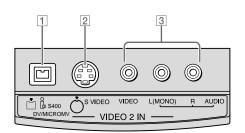
**Recommended Horizontal Viewing Angle** 

### **TV Controls and Connectors**

To access the front video panel, push up and then release. The panel drops down automatically.

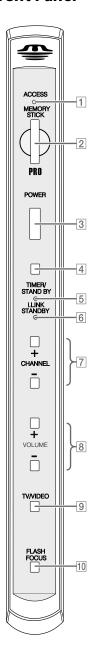


### Front Video Controls



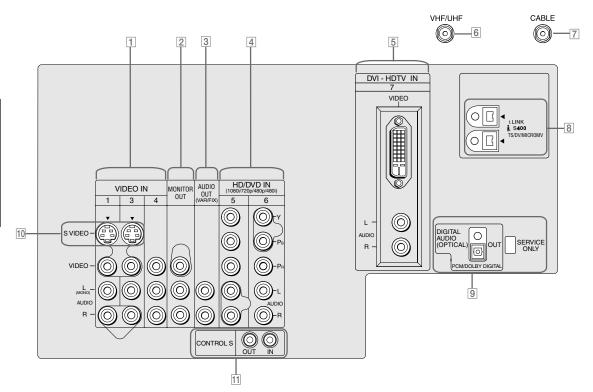
1	i.LINK	Connects to the i.LINK jack on your i.LINK-compatible portable device. Provides a secure digital connection between your TV and your i.LINK-compatible portable device.
2	S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (3).
3	VIDEO/L(MONO)- AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.

### Front Panel



Iter	n	Description
1	MEMORY STICK ACCESS LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
2	MEMORY STICK	Memory Stick insertion slot. For details, see "Inserting and Removing a Memory Stick" on page 69.
3	POWER	Press to turn on and off the TV.
4	Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
5	TIMER/ STAND BY LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 104.
6	i.LINK STANDBY LED	When lit in orange, indicates that i.LINK Standby is on. For details, see page 105.
7	-CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
8	-VOLUME +	Press to adjust the volume.
9	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
10	FLASH FOCUS	Press to adjust the convergence (see page 42).

### Rear Panel



Jack	Description	
1 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. These video connections provide better picture quality than the VHF/UHF (6) connections.	
2 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5-7).	
3 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.	
4 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than 1, 6, or 10).	
5 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.	
6 VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.	
7 Cable	RF input that connects to your cable signal.	
8 i.LINK	Used for connecting i.LINK-equipped devices.	
9 DIGITAL AUDIO OPTICAL OUTPUT (DOLBY DIGITAL PCM)	Connect to the optical audio input of an audio component that is Dolby Digital and PCM compatible.	
10 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (1) or VHF/UHF (6) connections.	
11 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.	

<sup>\*</sup>High-bandwidth Digital Content Protection

### Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If Y	ou Are Connecting	See Page
Cal	ole or Antenna Only No cable box or VCR	19
Cal	ole and Antenna Only No cable box or VCR	20
Cal	Cable Box and Cable Only Cable box unscrambles only some channels (usually premium channels) No VCR	21
Cal	ole Box Only Cable box unscrambles all channels No VCR	22

If you are connecting a VCR

See the connections described on pages 24 and 26.

### Cable or Antenna Only

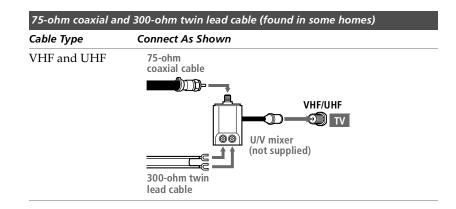
For best results, use one of the following connections if you are connecting a cable or an antenna and you:

- Do not need a cable box to unscramble channels. (If you have a cable box, see pages 21-22.)
- □ Do not intend to connect a VCR. (If you have a VCR, see pages 24 and 26.)

The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)				
Cable Type	Connect A	Connect As Shown		
VHF Only or combined VHF/UHF	75-ohm coaxial cable		VHF/UHF TV	
Cable	75-ohm coaxial cable		CABLE TV	

300-ohm twin lead cable (usually found in older homes)		
Cable Type	Connect As Shown	
VHF Only or UHF Only or combined VHF/UHF	300-ohm twin lead cable VHF/UHF  Antenna connector (not supplied)	

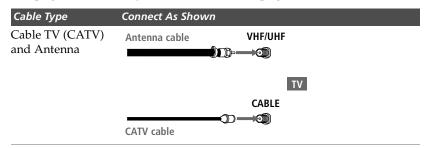


### Cable and Antenna Only

For best results, use this connection if you:

- ☐ Have a cable and an antenna.

  (This is convenient if you are using a separate rooftop antenna to receive additional channels, such as HDTV channels, that are not provided by your cable company.)
- □ Do not have a cable box or VCR. (if you have a cable box, see pages 21 to 22. If you have a VCR, see pages 24 and 26.)



To Do This	Do This
Switch the TV's input	Press ANT to switch back and forth between the TV's VHF/UHF and CABLE
between the cable and	inputs.
antenna	

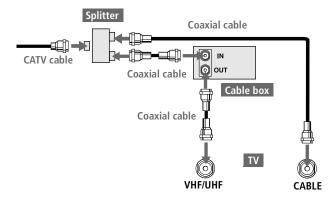
# Cable Box and Cable Only

For best results, use this connection if:

- Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ☐ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

#### With this connection you can:

- □ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- ☐ Use the TV remote control to change channels coming directly into the TV's CABLE input. (The TV's tuner provides a better signal than the cable box.)



#### About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's CABLE input jack.

To Do This	Do This	
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.	
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49-50.	
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.	
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 98.	
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.	

### **Cable Box Only**

For best results, use this connection if:

- Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

#### With this connection you can:

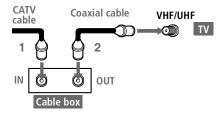
☐ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

#### About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 21 instead.

#### To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- 2 Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.
- 3 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 98.

### **Connecting Optional Equipment**

Use the directions in this section to connect the following optional equipment:

If You Are Connecting	See Page
VCR and Cable	24
VCR and Cable Box	26
Two VCRs for Tape Editing	28
Satellite Receiver	30
Satellite Receiver and VCR	32
DVD Player with Component Video	34
Connectors	
DVD Player with S VIDEO and Audio	36
Connectors	
Camcorder	37
Audio Receiver	38
Connecting a Device with an Optical IN	39
Connector	
Using the CONTROL S Feature	40

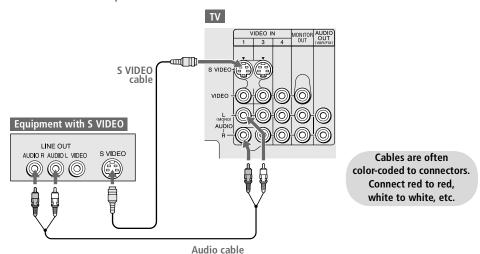
If you want to connect an i.LINK device, see "Connecting i.LINK Devices" on page 84.

# About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

**Example of an S VIDEO Connection** 



#### VCR and Cable

Using

S VIDEO jacks?

See page 23.

For best results, use this connection if:

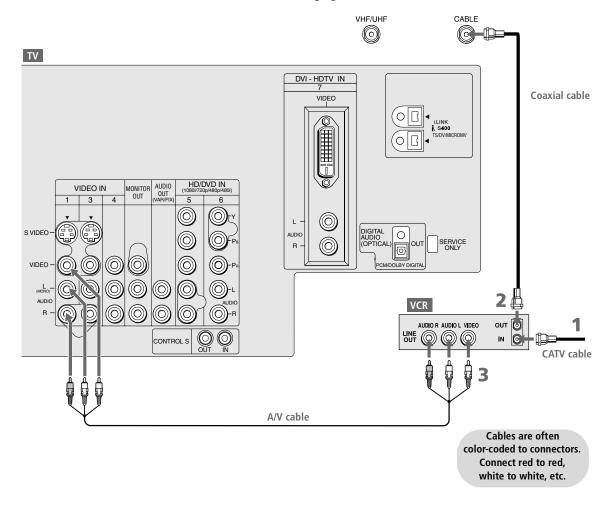
☐ Your cable company does not require you to use a cable box.

#### About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

#### To connect the VCR and cable

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's CABLE jack.
- **3** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



To Do This	Do This	
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).	
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).	
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.	
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.	
Control VCR functions with the TV remote control	See "Operating a VCR" on page 51.	
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.	

#### VCR and Cable Box

For best results, use this connection if:

☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

#### About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

#### With this connection you can:

- ☐ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- ☐ Use the TV remote control to change channels coming directly into the TV's CABLE jack. (The TV's tuner provides a better signal than the cable box.)
- □ Record channels coming through the cable box and channels coming directly into the TV.

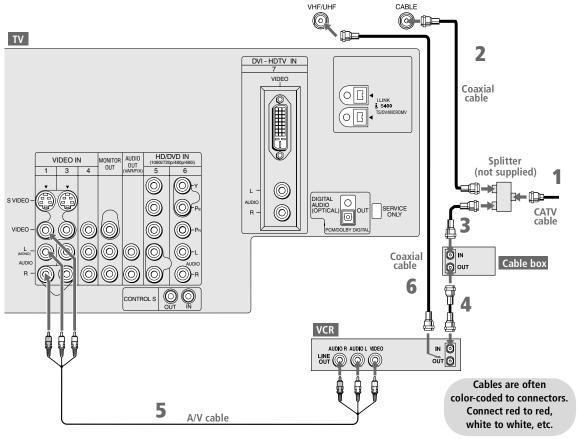
#### To connect a VCR and cable box, you need:

- A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.
- Three coaxial cables.
- One A/V cable or one S VIDEO cable with audio cables.

#### To connect the VCR and cable box

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use a coaxial cable to connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3 Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
- 4 Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
- 5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- **6** Use a coaxial cable to connect the VCR's RF output jack to the TV's VHF/UHF jack.
- 7 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.





VHF/UHF

Notes on Using This Connection

Notes on Using This Connection		
To Do This	Do This	
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).	
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.	
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).	
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.	
Activate the remote control to operate the cable box or VCR cover, as shown on page 48. Then set the A/V slide switch to the posyou programmed for the VCR.		
Control specific cable box and See "Operating a Cable Box" on page 52 and "Operating a VCR" on page VCR functions with the TV remote control		
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.	

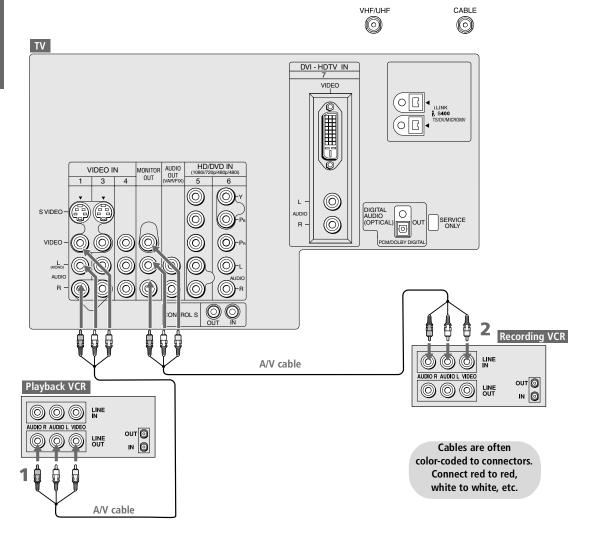
### Two VCRs for Tape Editing



Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
- 2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



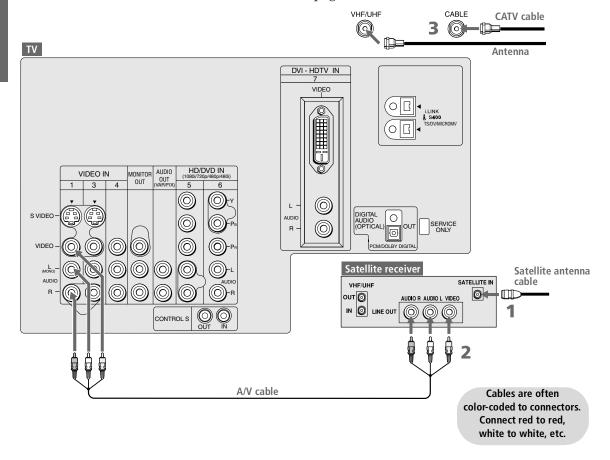
To Do This	Do This
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 48. Then set the $A/V$ slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

#### Satellite Receiver



To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- 3 Connect a cable from your cable or antenna to the TV's CABLE or VHF/UHF jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

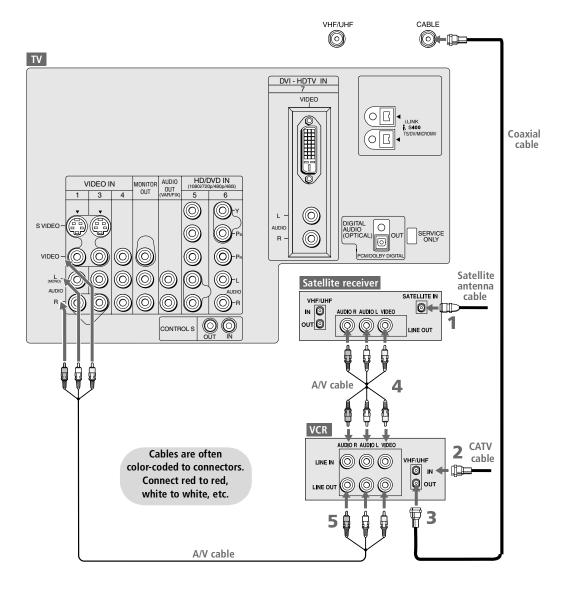
# Satellite Receiver and VCR



To connect a satellite receiver and VCR

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's CABLE jack.
- 4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
- 5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.

To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
	The VCR may need to be turned on and set to the satellite receiver input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 51 and "Operating a VCR" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

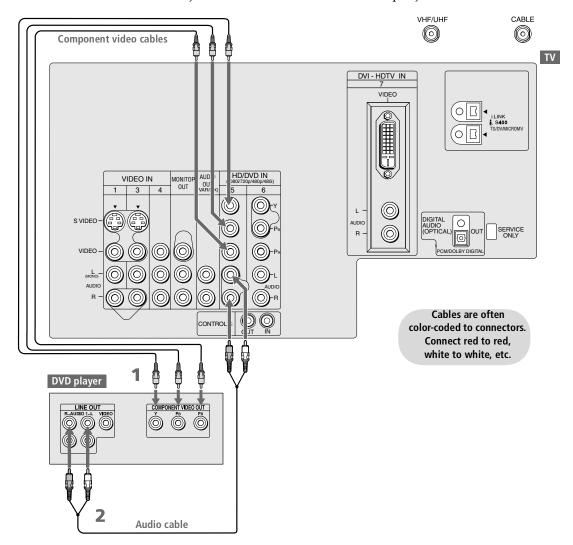


### DVD Player with Component Video Connectors

For best results, use this connection if your DVD player has component video (Y, PB, PR) jacks.

To connect a DVD player with component video connectors

- 1 Use a component video cable, or three composite video cables, to connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks (VIDEO 5) on the TV.
  - The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to like colors.
- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



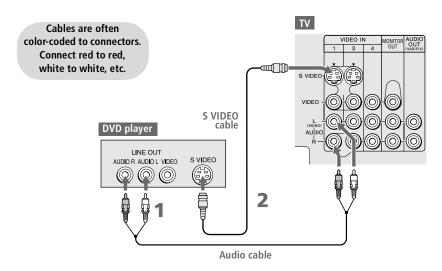
To Do This	Do This
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 52.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

### DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

- 1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
- 2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



To Do This	Do This
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 52.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

#### Camcorder

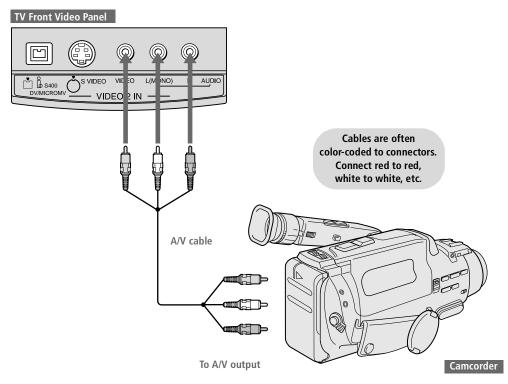


For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

If your camcorder is equipped with an i.LINK jack, see "Using i.LINK" on page 83.

#### To connect a camcorder

- 1 Open the front video panel, as shown on page 13.
- 2 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.



If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

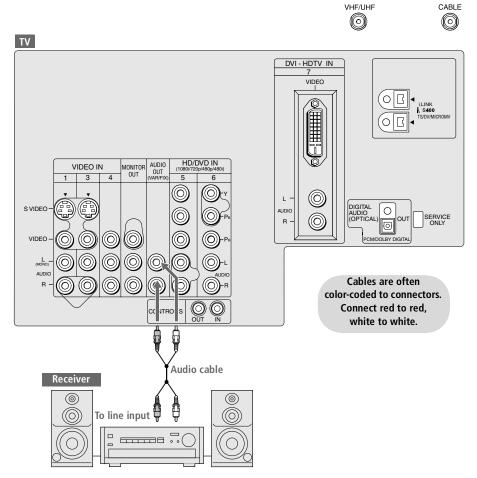
To Do This	Do This
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

#### Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.

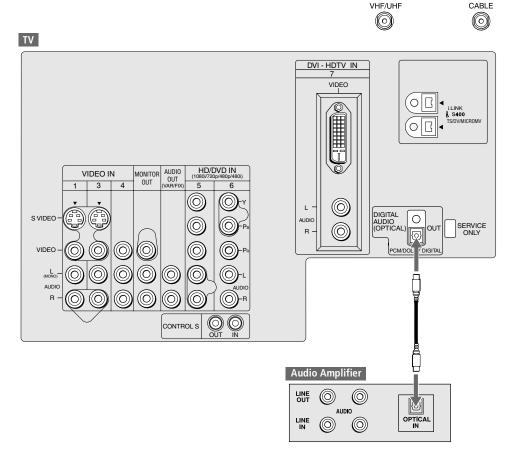


- 2 Using the TV's Audio Menu, set the Speaker option to Off. Then set the Audio Out option to Fixed or Variable, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 94.
- 3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

### Connecting a Device with an Optical IN Connector

You can use the TV's DIGITAL AUDIO OPTICAL output jack to connect an audio device that is Dolby Digital and PCM compatible, such as an audio amplifier.

□ Using an optical cable, connect the TV's DIGITAL AUDIO OPTICAL output jack to the device's audio optical input jack.



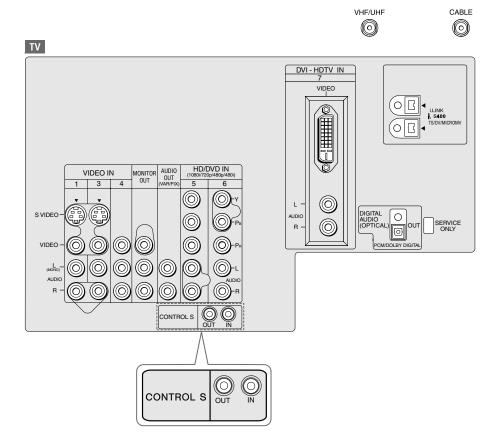
Because all equipment does not output digital audio, you should also connect the TV's analog audio output jacks to the amplifier's analog audio input jacks, as described on page 38.

### Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



### Setting Up the Channel List

After you finish connecting the TV, you need to run the Auto Program feature, which automatically creates a list of available analog and digital channels. The Auto Program screens appear when you turn on your TV for the first time after hooking it up.

### Using Auto Program

To run Auto Program the first time you turn on your TV

- 1 Press POWER to turn on the TV.
  The Initial Setup screen appears.
- 2 Using the joystick on the remote control, move the highlight to the desired language, then press ① to select that language.
- When prompted to start Auto Program, press 🕀 to select Yes. Auto Program takes several minutes to complete. A progress bar is displayed while the channel list is being created.

To run Auto Program again at a later time

☐ Use the Auto Program feature as described on page 98.

To add individual digital channels

☐ Use the Digital Channel feature as described on page 98.

To reset the TV to factory settings

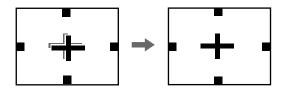
- 1 Press POWER to turn on the TV.
- 2 Hold down RESET on the remote control.
- 3 Press TV POWER on the TV. (The TV will turn itself off, then back on.)
- 4 Release RESET.

### Adjusting the Convergence Automatically (Flash Focus)

The projection tube image appears on the screen in three colors (red, green and blue). If they do not converge, the color is poor and the picture blurs. Before you use your TV, be sure to adjust the convergence. The Flash Focus feature allows you to adjust the convergence automatically.

- It is recommended that you perform Flash Focus about 30 minutes after the TV is first turned on.
- 1 Tune to a TV or cable TV program.
- 2 Press the FLASH FOCUS button on the front panel of the TV (see page 15).

The cross pattern appears and Flash Focus begins to work.



The adjustment is completed when the TV picture returns.

To Perform Additional Fine Manual Adjustments
Use the Manual Convergence feature, described on page 43.

#### Notes on Flash Focus

You can also access Flash Focus in the Setup menu. For

details, see page 103.

- ☐ You cannot perform any other functions until Flash Focus has completed its cycle. If you perform any other operation while Flash Focus is in progress, the Flash Focus operation is canceled.
- □ Flash Focus will not set the TV's convergence to the factory setting. To do this, press RESET while in Manual Convergence mode.

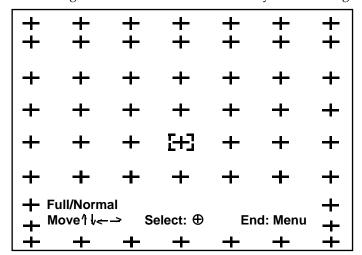
### Adjusting the Convergence Manually

The Convergence feature gives you more control over the picture's convergence than the Flash Focus feature, allowing you to fine-tune the convergence.

Before adjusting the convergence manually for the first time, you must first perform Flash Focus (as described on page 42).

- 1 Press MENU to display the Menu.
- 2 Move the joystick ◆ or → to highlight the Setup icon and press ⊕.
- Move the joystick to highlight Convergence and press ①.

  A pattern of white crosses appears, with a yellow [] around one of the crosses. Aligned crosses (which do not need adjustment) look white and have little or no red or blue showing. Crosses that are not aligned show red or blue shades beyond their edges.



You can scroll up and down through the 9 x 7 field of crosses to manually converge all portions of the screen.

- 4 Using the joystick, move the □ to surround a cross that you want to adjust. Press ⊕. The □ changes to red.
- If the cross that you selected has red edges, move the joystick until the red image is replaced with a white cross. Once you have finished this (or the cross does not have red edges), press ①. The Cl changes to blue.
- 6 If the cross you selected has blue edges, move the joystick until the blue image is replaced with a white cross. Once you have finished this, press ①. The [] changes to yellow again.
- Repeat steps 4 to 6 to adjust other crosses. When finished, press MENU to exit the Setup Menu.

For details on using the Setup Menu, see page 103.

### Notes on Adjusting the Convergence Manually

- □ Allow the TV to warm up for about 30 minutes before you adjust the convergence.
- For best results, stand about 3 to 5 feet back from the picture when adjusting the convergence. Begin with the crosses in the center area of the screen and, once those are adjusted, move to the crosses on the edges of the screen.
- ☐ You can make separate adjustments to each wide mode: Full/Normal, Zoom, Wide Zoom, and Memory Stick/1080i high-definition input. (These features share a common convergence mode.) The cross pattern looks different in each of these, but the adjustment procedure is the same. Press the WIDE MODE button on the remote to toggle through the wide mode screens.
- □ To optimize the conditions for convergence adjustment, in the Video Menu, set Mode to Pro or Movie and lower the Picture level settings (see page 92). You can reset the adjustments by pressing the RESET button on the remote control.

## Using the Remote Control

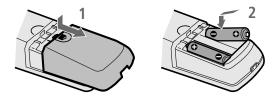
### **Overview**

This chapter describes how to set up, program, and use the TV's remote control.

Торіс	Page
Inserting Batteries	45
Button Descriptions	
Outside Panel	46
Inside Panel	48
Programming the Remote Control	49

### **Inserting Batteries**

- 1 Remove the battery cover from the remote control.
- 2 Insert two size AA (R6) batteries (supplied) by matching the **⊕** and **⊕** terminals on the batteries to the diagram inside the battery compartment.
- 3 Replace the battery cover.



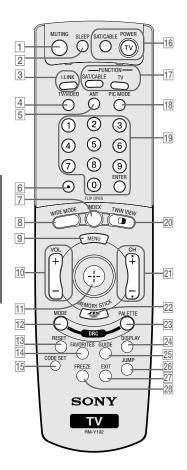
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care.

Avoid dropping it, getting it wet, placing it in direct sunlight, near a heater, or where the humidity is high.

### **Button Descriptions**

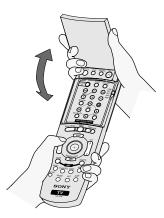
### **Outside Panel**

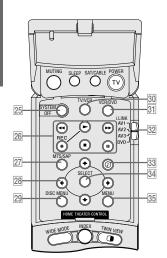


Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL+ to
_	restore the sound.
2 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. To cancel press until Sleep Off appears. While the Sleep feature is set, press once to display the remaining time.
3 i.LINK	Press to display the i.LINK Control Panel. For information on using the i.LINK Control Panel, see page 87.
4 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
5 ANT	Press to switch between the sources connected to the TV's VHF/UHF and CABLE inputs.
6	Use with 0-9 and ENTER buttons to select digital channels (for example, 2.1). For details on selecting digital channels, see pages 54 and 58.
7 INDEX	Press to display the Scrolling Index. For details, see page 55.
8 WIDE MODE	Press repeatedly to step through the Wide Mode settings: Wide Zoom, Normal, Full, Zoom. Also available in the Screen menu. For details, see pages 56 and 96.
9 MENU	Press to display the Menu. Press again to exit from the Menu. For details, see page 91.
10 VOL +/-	Press to adjust the volume.
11	Move the joystick $\P \P \P \P$ to move the on-screen cursor. To select an item, press the center of the joystick $\P$ .
12 DRC MODE	Press repeatedly to cycle through the available high- resolution picture modes: Interlaced, Progressive, CineMotion. Also available in the Video Menu. For details, see "Selecting Video Options" on pages 92-93.
13 RESET	Press to reset the settings to the factory defaults. See pages 92 and 94. Also used to clear Favorite Channels, (see page 60), and Manual Convergence (see page 44).
14 FAVORITES	Press to display the Favorite Channels list. For details, see page 60.
15 CODE SET	Press to program the remote control to operate non- Sony video equipment. For details, see "Programming the Remote Control" on page 49.

Button	Description
16 POWER Buttons	SAT/CABLE: Press to turn on and off the satellite receiver or cable box.
	TV: Press to turn on and off the TV.
17 FUNCTION Buttons	The indicator lights up momentarily when pressed to show which equipment the remote control is operating:
	SAT/CABLE: Press to have the remote control operate the satellite receiver or cable box.
	TV: Press to have the remote control operate the TV.
18 PIC MODE	Press repeatedly to cycle through the available video picture modes: Vivid, Standard, Movie, Pro. Also available in the Video Menu. For details, see "Selecting Video Options" on page 92.
19 0 - 9 ENTER	Press 0 - 9 to select a channel; the channel changes after 3 seconds. Press ENTER to change channels immediately.
20 TWIN VIEW	Press to turn on and off Twin View. For details, see pages 57-59.
21 CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either CH button.
22 MEMORY STICK	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 67.
23 DRC PALETTE	Press repeatedly to cycle through the three Custom DRC Palette options. Also available in the Video Menu. For details, see "Selecting Video Options" on pages 92-93.
24 DISPLAY	Press once to display the current channel number, current time, and program information banner (if set). Press again to turn Display off.
25 GUIDE	Press to display the digital program guide. For details, see page 63.
26 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
27 EXIT	Press to exit the on-screen menu or display and return to normal viewing.
28 FREEZE	Press to freeze the window picture. Press again to restore the picture. For details see page 61.

### Inside Panel





To access the inside panel, open the outside cover as shown.

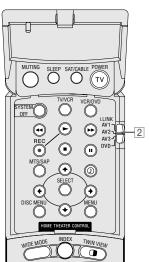
Opening the outside cover automatically switches the remote control to operate your VCR or DVD player, depending on the position of the A/V slide switch. For details, see page 49.

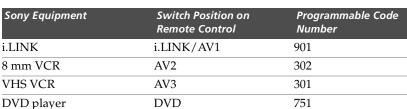
VCR and DVD buttons require that you first program the remote (page 49), if the VCR and DVD player are not Sony brand.

Button	Description
25 SYSTEM OFF	Description Press to turn off all Sony brand audio/video equipment
25 3131EW OFF	at once. (May not function with older Sony equipment.)
Transport	Rewind
26 Transport Buttons	· · · · · · · · · · · · · · · · · · ·
DULLOIIS	Play
	Record (press together with >)
	To record with i.LINK devices, press only ●.
	Stop
	►► Fast forward
	II Pause
27 MTS/SAP	Press repeatedly to cycle through the Multi-channel TV
	Sound (MTS) options: Stereo, Auto SAP (Second Audio
	Program), and Mono. Also available in the Audio Menu.
	For details, see "Using the Audio Menu" on page 94.
28 ★ ★ →	Press ♠♦ ♦ to move the VCR or DVD player's on-
	screen cursor.
29 DISC MENU	Press to display the DVD Menu.
30 TV/VCR	Press to change to the VHF/UHF output of the VCR.
31 VCR/DVD	Press to turn on and off the VCR or DVD player.
32 i.LINK	Use the A/V slide switch to control connected video or
AV1/2/3/DVD	i.LINK equipment. You can program one video source
Slide Switch	for each switch position. i.LINK-connected devices are
	by default set to AV1. For details, see "Programming the
	Remote Control" on page 49.
<b>33</b> ①	Press repeatedly to step through the Audio Effect
	options. Also available in the Audio Menu. For details,
	see page 94.
34 SELECT	Press to select an item in the VCR or DVD player's
	menu.
35 MENU	Press to display the DVD player setup menu.

### **Programming the Remote Control**

The remote control is preset to operate Sony brand video equipment. Sony Equipment Switch Position on Programmable Code





If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedure to program the remote control.

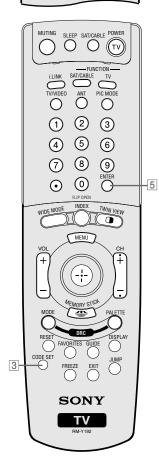
- 🖾 The equipment must have infrared (IR) remote capability in order to be used with the remote control.
- Turn to the list of "Manufacturer's Codes" on page 50, and find the three-digit code number for the manufacturer of your equipment. (If more than one code number is listed, use the number listed first.)
- Open the remote control and set the A/V slide switch to i.LINK/AV1, AV2, AV3, or DVD. Then close the remote control.
  - 🖾 If the device that you wish to program is connected through i.LINK, you must set the slide switch to AV1.
- Press CODE SET.
- Enter the three-digit manufacturer's code number.
- Press ENTER.



6 To check if the code number works, aim the TV's remote control at the equipment and press the POWER button that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.



- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.



#### **VCRs**

VCRs	
Manufacturer	Code
Sony	301, 302, 303
Admiral	327
(M. Ward)	
Aiwa	338, 344
Audio	314, 337
Dynamic	
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
T: 1	
Fisher	330, 335
Funai	338
General	329, 304, 309
Electric	222 220 240
Go Video Goldstar	322, 339, 340
Hitachi	
ппаст	306, 304, 305, 338
Instant Replay	
JC Penney	309, 308 309, 305, 304,
JC 1 clincy	330, 314, 336,
	337
IVC	314, 336, 337,
,	345, 346, 347
Kenwood	314, 336, 332,
	337
LXI (Sears)	332, 305, 330,
, ,	335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/	323, 324, 325,
MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327

Manufacturer	Code
Orion	317
Panasonic	308, 309, 306,
	307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/	304, 305, 308,
PROSCAN	309, 311, 312,
	313, 310, 329
Realistic	309, 330, 328,
	335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321,
	335, 323, 324,
	325, 326
Sharp	327, 328
Signature 2000	338, 327
(M. Ward)	
SV2000	338
Sylvania	308, 309, 338,
	310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338,
	337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335,
	331, 332
Yamaha	314, 330, 336,
	337
Zenith	331
Laserdisc Players	

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

#### i.LINK Controls

Function	Code	
Rewind, Play,	901	
Fast-forward,		
Record, Stop,		
Pause		

### **DVD Players**

Manufacturer	Code
Sony	751
Apex	762
General	755
Electric	
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/Proscan	755
Samsung	758
Toshiba	754
Zenith	760

#### **Cable Boxes**

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224,
	225, 226
Jerrold/G. I./	201, 202, 203,
Motorola	204, 205, 206,
	207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific	209, 210, 211
Atlanta	
Tocom	216, 217
Zenith	212, 213

#### **Satellite Receivers**

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General	802
Electric	
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/	802, 808
PROSCAN	
Toshiba	806, 807

### **Using Other Equipment with Your TV Remote Control**

### All Equipment

To Do This	Do This
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Set up the TV remote control to operate non-Sony equipment	You must program the remote control the first time you use it. See "Programming the Remote Control" on pages 49 to 50.

### Operating a VCR

To Do This	Press
Activate the remote control to operate the VCR	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Change channels	CH +/-
Record	► and • simultaneously
Play	<b>&gt;</b>
Stop	
Fast forward	<b>&gt;&gt;</b>
Rewind the tape	44
Pause	II
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Change input mode	TV/VCR

### Operating a Satellite Receiver

To Do This	Press
Activate the remote control to operate the satellite receiver	SAT/CABLE FUNCTION
Turn on/off	SAT/CABLE POWER
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	Move the joystick <b>↑ ◆ ◆</b>
Select item	$\Theta$

### Operating a Cable Box

To Do This	Press
Activate the remote control to operate the cable box	SAT/CABLE FUNCTION
Turn on/off	SAT/CABLE POWER
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

### Operating a DVD Player

To Do This	Press
Activate the remote control to operate the DVD	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the DVD player.
Play	<b>&gt;</b>
Stop	•
Pause	II
Step through different tracks of the disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD player Menu (Setup)	MENU (inside panel)
Display the DVD Menu	DISC MENU
Move highlight (cursor)	<b>↑ * ← →</b>
Select item	SELECT

# Operating an MDP (Laserdisc Player)

To Do This	Press
Activate the remote control to operate the MDP	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the MDP player.
Play	<b>&gt;</b>
Stop	
Pause	II
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

## **Using the Features**

### **Overview**

This chapter describes how to use the features of your TV.

Topic	Page
Watching TV	54
Using the Scrolling Index	55
Using Wide Mode	56
Using Twin View	57
Using Favorite Channels	60
Using the Freeze Function	61

## Watching TV

For a complete list of all the functions of the remote control, see pages 45-50.

To Do This	Do This
Activate the remote control to operate the TV	Press TV FUNCTION
Turn on/off the TV	Press TV POWER
Tune directly to a channel	To tune to analog channels, press 0-9 and then ENTER.
	For digital subchannels, press 0-9, $\bigcirc$ , press 0-9 again, and then ENTER.
	For example, to select subchannel 2.1, press $2 + \bigcirc + 1$ , and then press ENTER.
	You can also select digital channels using the digital program guide. See page 63 for details.
Adjust the volume	Press VOL +/-
Mute the sound	Press MUTING (press again to unmute)
Alternate back and forth	Press JUMP
between two channels	The TV alternates between the current channel and the last channel tuned.
Display the current channel number (and other information)	Press DISPLAY once to display the channel number, current time, and channel label (if set). Press DISPLAY again to turn Display off.
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Change video and audio options, customize the TV's setup, set parental controls, and more	Press MENU to display the Menu. For details, see "Using the Menus" on page 91.
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT to alternate between sources connected to the TV's VHF/UHF and CABLE inputs.
Switch the TV's input to a connected i.LINK device	Press i.LINK to display a list of available i.LINK devices, and select the desired device from the list. See page 86 for details.

## Using the Scrolling Index

The Scrolling Index lets you select programs from a series of preview windows that scroll along the right side of the screen.

1 Press INDEX.

The Scrolling Index appears, with the currently selected program in the main (left) window, and four scrolling video pictures in the right.



As each picture on the right scrolls to the live preview window, it changes briefly from a frozen video picture to a live video. The right side continues to scroll through the entire channel list.

- 2 To change the direction of the scrolling, move the joystick ♠ or ♥.
- 3 To change the speed of the scrolling, move and hold the joystick ♠ or ♥.
- To change a frozen video picture to a live video, move the joystick ♠ or ♥ to highlight the picture, then press ⊕.
- To move the live video (from step 4) from the right to the main (left) window of the Scrolling Index, press 🕀 again.

To exit the Scrolling Index

☐ Press INDEX.

## Factors Affecting Scrolling Index

- □ Scrolling Index feature does not function if you use a cable box to view all channels.
- □ Digital sources, as well as any sources connected to the VIDEO 5, VIDEO 6, VIDEO 7 inputs, display in the left window, but not in the right windows.
- □ Scrolling Index does not function if parental controls are set (see page 100).

## **Using Wide Mode**

Wide Screen mode lets you watch 4:3 normal broadcasts in several Wide Screen modes (16:9 aspect ratio).

- When viewing high-definition programs broadcast in 720p/1080i, it is not possible to change between Wide Screen modes.
- ☐ Press WIDE MODE repeatedly to toggle through the following Wide Mode settings.

You can also access the Wide Mode settings in the Screen menu. For details, see page 96.

#### Example

#### Description



Wide Zoom enlarges the center portion of the 4:3 picture proportionately; however, only the left and right edges of the screen are stretched to fill the 16:9 screen. The picture has a normal appearance, as much as possible.

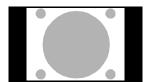


Wide Zoom





Normal returns the 4:3 picture to its original size. Black bars are visible at left and right sides to fill the 16:9 screen.



Normal





Full





Zoom

Full Mode stretches the entire 4:3 picture horizontally only, to fill the 16:9 screen. The picture has an elongated appearance.



Zoom Mode enlarges the entire 4:3 picture proportionately to fill the 16:9 screen. Useful for watching Letterbox movies.



When you change channels or inputs, the Wide Mode settings revert to the 4:3 Default setting in the Screen menu. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 97.

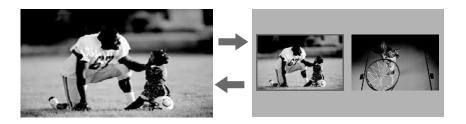
## **Using Twin View**

Twin View lets you see two pictures from two sources — from an antenna, VCR, DVD, etc. — on the screen at the same time. You hear the sound from only one of the sources at a time, but you can choose which source's sound is selected. You can also change the relative size of each of the pictures.

## Displaying Twin Pictures

- 1 Tune the TV to a working channel.
- 2 Press (1.

A second picture appears. The active picture is highlighted in blue.



To cancel Twin View and watch the active picture

 $\square$  Press  $\bigcirc$  or  $\bigcirc$ .

### **Factors Affecting Twin View**

- ☐ If you use a cable box to view all channels, the same channel appears in both windows of Twin View because the cable box unscrambles only one channel at a time.
- ☐ If you use a cable box, you can view the cable box output in one Twin View window and view a different source (such as a VCR or DVD player) in the second window by using the TV/VIDEO button. For details, see "Connecting Optional Equipment" on page 23.
- □ Digital sources, as well as any sources connected to the VIDEO 5, VIDEO 6, VIDEO 7 inputs, display in the left window, but not in the right.
- ☐ If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side in Twin View, the 4:3 source appears larger.
- ☐ Twin View does not display channels that are blocked by parental settings (see page 100).

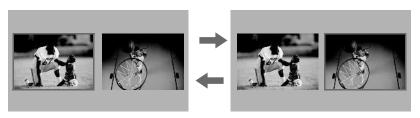
## Activating the Picture

To activate the picture in the right window

■ Move the joystick \*.

To activate the picture in the left window

☐ Move the joystick ◆.



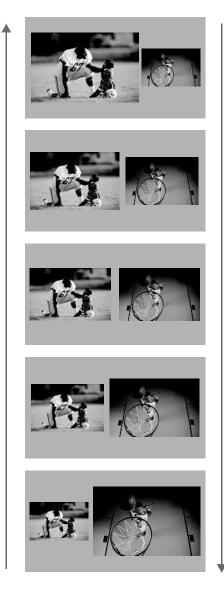
Functions Available in the Active (Highlighted) Window

Do This
To tune to analog channels, press 0-9 and then ENTER or Press CH+/-
For digital subchannels, press 0-9, $\bigcirc$ , press 0-9 again, and then ENTER.
For example, to select subchannel 2.1, press $2 + \bigcirc + 1$ , and then press ENTER.
Press VOL +/-
Press MUTING (press again to unmute)
Press ANT
Press TV/VIDEO
Move the joystick ♠ or ♥. (For details, see "Changing the Picture Size" on page 59.)

## Changing the Picture Size

The zoom feature lets you vary the relative size of the left and right pictures.

- 1 Move the joystick ◆ or → to activate the picture that you want to resize.
- Move the joystick ♠ to enlarge the picture.
- 3 Move the joystick **♦** to make the picture smaller.



When you adjust the picture sizes, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

## **Using Favorite Channels**

The Favorite Channels feature lets you select programs from a list of up to 16 favorite channels that you specify.

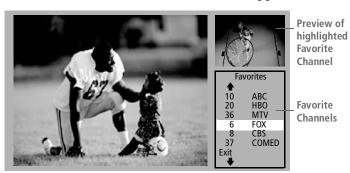
#### Creating a List of Favorite Channels

For details on using the Channel Menu, see page 98.

- 1 Press MENU to display the Menu.
- 2 Move the joystick ◆ or → to highlight the Channel icon and press ⊕.
- 3 Press (+) to select Favorite Channels.
- 4 Move the joystick ♠ or ♥ to highlight a Favorite Channel number (1-16) and press ♠.
- 5 Move the joystick ♠ or ▶ to highlight a channel you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen. Press ♠ to select that channel as a Favorite Channel.
- Digital channels are displayed as a black box in the preview window.
- To add more channels to your favorites list, repeat steps 4-5.

  To clear a Favorite Channel, move the joystick ♠ or ♥ to highlight the channel you want to clear. Press ⊕ and then press RESET.
- 7 Press MENU to exit the Menu.

1 Press FAVORITES. The Favorite Channels list appears.



- Move the joystick ♠ or ♥ to highlight the channel you want to watch.
  - A preview of the highlighted Favorite Channel appears.
- Press 🕀 to select the channel you want to watch.

# Displaying a List of Favorite Channels

To assign Channel Labels (e.g., ABC, HBO, MTV, etc.) to channel numbers, as shown at right, use the Channel Label feature in the Channel Menu (see page 99).

## Using the Freeze Function

The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

#### The Freeze feature is not available while you are using the Twin View.

- 1 When the program information you want to capture is displayed, press FREEZE.
- 2 The TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



3 To cancel and return to normal viewing, press FREEZE (or just tune to another channel).

## Using the Digital Program Guide

## Displaying the Digital Program Guide

This TV is equipped to show digital programming, if a digital signal is present. The digital program guide and menus let you review program information, select digital channels and subchannels, set up your TV's digital programming, and enable digital closed captioning.

Analog channels are not available in this guide.

To display the digital program guide:

- 1 Tune your TV to a digital channel by using the 0-9, ⊙, and ENTER buttons.
- 2 Press GUIDE on the TV's remote control. The digital program guide appears, with the currently selected program showing in the background.



Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

The digital program guide and menus are not available while using multipicture functions (Twin View, Freeze, Scrolling Index, i.LINK, Memory Stick, or Favorite Channels).

### Navigating the Digital Program Menus

Four digital menus are available on the digital program guide.

Digital Program Menu	See Page
Using the Guide Menu	64
Using the Program Options Menu	64
Using the Caption Vision Menu	65
Using the Digital Setup Menu	65

To navigate to these menus and through the available options:

- 1 Move the joystick ◆ ◆ ◆ to navigate through the options.
- 2 Press 🕀 to select the desired option.

#### Using the Guide Menu

The Guide menu allows you to select digital channels and subchannels from a dropdown list. This list also provides information about the current program being shown on each digital channel.



Subchannels are additional channels of programming broadcast simultaneously. For example, channel 4 might include three subchannels (4.1, 4.2, 4.3) that are showing programs at the same time.

## Using the Program Options Menu

The Program Options menu allows you to customize the settings of the program on the currently tuned channel.

Option	Description
Alternate Video	Each program has a main video stream, and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio	Each program has a main audio stream (the audio that you hear when the channel is first tuned). This option allows you to switch among these alternate audio streams (e.g., for different languages).

## Using the Caption Vision Menu

The Caption Vision menu allows you to turn on/off digital closed captioning, and to modify how digital closed captioning is shown on your TV. Depending on the program, digital closed captioning will be available in a number of different languages, aspect ratios, and reading levels.

1 Use the joystick to select from the following six services. The service description, if available, applies to the currently tuned channel.

Option	Description
Off	Turns off closed captioning for digital programs
1 XXX YYY ZZZ	XXX = language (English, Spanish, French, etc.)
2 XXX YYY ZZZ	YYY = reader level (standard*, easy)
3 XXX YYY ZZZ	ZZZ = aspect ratio (4:3, 16:9)
4 XXX YYY ZZZ	* *************************************
5 XXX YYY ZZZ	<ul> <li>* When set to this option, the option name is not</li> <li>shown</li> </ul>
6 XXX YYY ZZZ	

The Caption Vision menu only affects digital channels. For closed captioning on analog channels, see "Using the Setup Menu" on page 103.

### Using the Digital Setup Menu

This option is the same as the "Digital Channels" option. See "Using the Setup Menu" on page 103.

The Digital Setup menu lets you change the way your digital channels are displayed.

The following digital setup functions are available:

Option	Description
Add Digital Channels	This option allows you to add new digital channels for the currently active antenna mode (Cable or VHF/UHF).
	This option is useful if the number of digital channels that your TV is able to receive has recently been increased, but you do not want your TV to perform a full Auto Setup.
Channel Show/Hide	This option allows you to remove (hide) digital channels from the Digital Program Guide's list of channels and subchannels, as well as from channel surfing using CHANNEL +/ Hidden channels can still be directly tuned using 0-9 and ①.
Digital Signal Strength	Displays the current strength of the digital signal on VHF/UHF, to allow you to adjust your antenna for optimal reception. (Does not apply to digital cable channels.)
Digital Caption Setup	Allows you to customize digital closed captioning (see page 66 for details).

### Customizing Caption Vision

You can use the Digital Caption Setup menu to customize your TV's Caption Vision.

Select from the following options to change the visual characteristics of your TV's digital closed captioning. A preview window displays a sample as you scroll through each option.

Option	Description
Character Size	Small, Standard*, Large
Character Style	Style 1-7 (Style 4*)
Character Color	None, Color 1-8 (White*)
Edge Color	Color 1-8 (Black*)
Edge Type	None*, Raised, Depressed, Outline, Left Shadow, Right Shadow
Background Color	None, Color 1-8 (Teal, Transparent*)
Window Color	None*, Color 1-8

<sup>\*</sup> Indicates factory default setting

## Using the Memory Stick Viewer

## About Memory Stick



Memory Stick (sold separately) is a new, compact, portable, and versatile Integrated Circuit recording medium with a data capacity that exceeds that of a floppy disk. Memory Stick is specially designed for sharing digital data among Memory Stick compatible products such as digital cameras and digital video cameras. Because it is removable, Memory Stick can also be used for external data storage.

The Memory Stick Viewer on your TV allows you to view files that are stored on Memory Stick media. You can view:

- □ Digital photos (JPEG files)
- ☐ Movies (MPEG1 files)

You can also play slide show background music using MP3 files stored on your Memory Stick.

For more information about handling Memory Stick media, see "Notes on Using Memory Stick Media" on page 81.

#### **Features**

With the Memory Stick Viewer, you can:

- □ View photo (JPEG) and movie (MPEG1) files in a thumbnail index or Slide Show
- Set customized Slide Show options, including transitions and background audio
- Pan, zoom, and rotate photos
- □ Lock (protect) or delete files on the Memory Stick

### Memory Stick Compatibility

This television is compatible with the following Memory Stick media types:

- Memory Stick Media
- Memory Stick Duo Media
- ☐ Memory Stick Media with Memory Select Function
- Memory Stick PRO Media

About Memory Stick PRO Media

Memory Stick PRO media features vary by and are dependent upon the design of host hardware devices. Memory Stick Pro in this television has been tested to support up to 1 GB media capacity and does not support high-speed transfer, MagicGate copyright protection technology, or access control security features.

#### File Compatibility

The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras and MPEG1\* movies taken with Sony digital cameras and camcorders. In order to be viewable in the Memory Stick Viewer, the files must have the following file name extensions:

File Type	Supported File Name Extensions
JPEG	.jpg .jpeg
MPEG1	.mpg .mpeg

#### Trademark Information

Memory Stick, Memory Stick PRO, and MagicGate are trademarks of Sony Corporation.

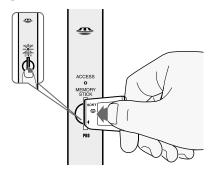
<sup>\*</sup>Some variations of MPEG1 movies may not play back correctly.

## Inserting and Removing a Memory Stick

If you are using a Memory Stick Duo, see "Inserting the Memory Stick Duo" on page 70.

### Inserting a Memory Stick

1 Locate the Memory Stick slot and insert the Memory Stick into the Memory Stick slot as illustrated below. When inserted properly, it should slide in with little resistance and click into place.



Be sure to insert the Memory Stick in the correct direction. If the Memory Stick is forced in the wrong way, it may become damaged.

Insert only Memory Stick media into the Memory Stick slot. Attempting to insert other objects into the slot may damage the TV.

To remove the Memory Stick, see "Removing a Memory Stick" on page 71.

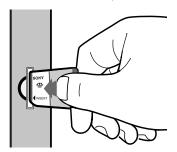
### Inserting the Memory Stick Duo

Memory Stick Duo is a new, compact version of the standard-sized Memory Stick recording medium.

- CAUTION: Inserting the Memory Stick Duo incorrectly may result in permanent damage to the Memory Stick Duo and the TV.
- 1 Before inserting a Memory Stick Duo into the TV's Memory Stick slot, you must first insert the Memory Stick Duo into an adapter (sold separately).



- CAUTION: Inserting the Memory Stick Duo into the Memory Stick slot without the adapter may result in permanent damage to the Memory Stick Duo and the TV.
- 2 Insert the Memory Stick Duo and adapter as shown below.



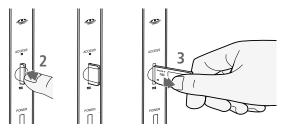
CAUTION: Inserting the Memory Stick adapter backwards or upside down may result in permanent damage to the Memory Stick adapter and the TV.

To remove the Memory Stick Duo, see "Removing a Memory Stick" on page 71.

### Removing a Memory Stick

#### To remove a Memory Stick

- 1 Check that the Memory Stick indicator is off. (When the light is on, this indicates that the TV is reading data from the Memory Stick.)
- Removing the Memory Stick while a file is being accessed (when the Memory Stick LED on the TV's front panel is lit) may damage the Memory Stick or its contents.
- **2** Push the Memory Stick gently into the slot, and then release it. The Memory Stick media is ejected.



When removing the Memory Stick, do not attempt to just pull it from its slot. Follow steps 1-3 (right).

3 Pull the Memory Stick completely out of the slot.



## **Using the Memory Stick Index**

Turn on the TV and insert a Memory Stick that contains the photo or movie files you want to view. For details, see page 69.

If the Memory Stick Index does not appear, press the MEMORY STICK button on the remote control.

The Memory Stick Index appears, which displays thumbnail images of the files stored on the Memory Stick.



About the Lock and Movie Icons on the Thumbnail Images

- Indicates the thumbnail is a movie (MPEG1) file instead of a photo (JPEG) file.
- Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see "Protect" on page 80.

## Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

O	•
To Do This	Do This
Move the highlight to a photo or movie ([-]) thumbnail	Move the joystick ♠ ♦ ♦ ▶.
Display the highlighted photo or movie file full screen	Press ①. For details, see "Viewing Photos" on page 74 and "Playing Movies" on page 77.
Display the next	<b>1</b> Move the joystick <b>▼</b> to select <b>▼</b> .
page of thumbnails	<b>2</b> Move the joystick ♥ to display the next page of thumbnails.
Display the	<b>1</b> Move the joystick <b>▼</b> to select <b>▼</b> .
previous or next	<b>2</b> Move the joystick ◆ to select ◆.
page of thumbnails	<b>3</b> To go to the previous page, move the joystick ♠. To go to the next page, move the joystick ♥.
Use the Memory	<b>1</b> Move the joystick <b>▼</b> to select <b>▼</b> .
Stick menu bar to access additional	2 Move the joystick ◆ or → to select Slide Show, Folder, or Memory Stick.
options	<b>3</b> Move the joystick ♠ or ♥ to select the option you want to change.
	For details on these options, see "Memory Stick Index Menu Bar Options" on page 79.
Move the highlight	<b>1</b> Move the joystick ◆ or → to select <b>V</b> .
from the Memory Stick menu bar back to the thumbnails	<b>2</b> Move the joystick ♠ to return to the currently displayed thumbnails, or ♥ to display the next page of thumbnails.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

## **Viewing Photos**

When you select a photo from the Memory Stick Index (described on page 72), it displays as shown below, with the following controls.



JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.

#### **Photo Controls**

When the menu is hidden, move the joystick ← or → to go to the previous or next photo.

To Do This	Do This
Display the next or previous file on the Memory Stick	Move the joystick to highlight the (Previous/Next) button. Then move the joystick ◆ to go to the previous file, or → to go to the next file.
Hide the Photo menu bar, displaying only the photo	With the highlight in the Photo menu bar, move the joystick ♥.
Display the hidden Photo menu bar	Move the joystick ♠.
Display the Memory Stick Index again	Move the joystick to highlight Index in the Photo menu bar and press ①.
	For details on the Memory Stick Index, see page 73.
Access additional options in the Photo menu bar	See "Photo Menu Bar Options" on page 75.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

### Photo Menu Bar Options

The Photo menu bar lets you access additional photo viewing options.

To access the Photo menu bar

- Move the joystick ◆ or → to select Slide Show, View, or File.
- Move the joystick to select the desired option.

	, ,	1
Option	Description	
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed photo. For details, see "Using the Memory Stick Index" on page 72.	
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 79.	
View	Zoom/Pan	Allows you to magnify and pan across the photo. For details, see "Using Zoom and Pan" on page 76.
	Rotate	Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. For details, see "Using Rotate" on page 76.
File	Information	Allows you to turn on or off the display of file information. Select On or Off.
	Protect	Allows you to the protect the JPEG file from any changes. When a JPEG file is protected, it cannot be rotated or deleted. Select On or Off.
	Delete	Deletes the JPEG file from the Memory Stick. You cannot delete a JPEG file that has been protected (or if the Memory Stick is locked).

☐ JPEG files that are protected are indicated by the Lock ☐ icon.

## Using Zoom and Pan

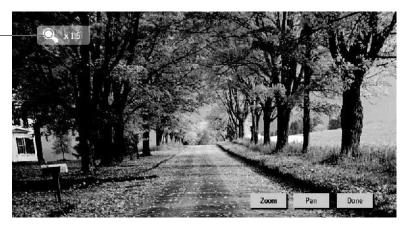
#### To Zoom and Pan a photo

- 1 In the Photo menu bar, move the joystick to highlight View.
- 2 Move the joystick to highlight Zoom/Pan and press .
- 3 Specify the zoom center point by moving the joystick; then press 

   to set the center.

The Zoom and Pan controls are displayed.

Indicates Zoom increment



To Do This	Do This
Zoom in (increase magnification) or out (decrease magnification)	Move the joystick to highlight Zoom and press ⊕. Then move the joystick ♠ to zoom in or ♥ to zoom out.
	To stop using Zoom, press 🕀.
Pan (left, right, up, down)	(You can use Pan only when the photo is magnified using Zoom.)
	Move the joystick to highlight Pan and press $\bigoplus$ . Then move the joystick $\spadesuit \Rightarrow \spadesuit$ to pan around the photo.
	To stop using Pan, press – .
Exit the Zoom/Pan controls	Move the joystick to highlight Done and press 🕣.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

#### **Using Rotate**

#### To Rotate a photo

- 1 In the Photo menu bar, move the joystick to highlight View.
- Move the joystick to highlight Rotate.
- To rotate clockwise, move the joystick to highlight Clockwise and press .

To rotate counterclockwise, move the joystick to highlight Counterclockwise and press  $\bigcirc$ .

The photo is rotated 90 degrees each time you press .

## **Playing Movies**

When you select a movie from the Memory Stick Index (described on page 72), it displays as shown below, with the following controls.



#### **Movie Controls**

The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.

To Do This	Do This
Enlarge the movie window	Move the joystick to highlight Enlarge, and then press ①. To display the movie controls again,
	press ①. When the movie ends, the movie controls are displayed again.
Play the movie with the movie controls displayed	Move the joystick to highlight $\triangleright$ (Play) and then press $\oplus$ .
Pause the movie	Move the joystick to highlight <b>■</b> (Pause) and then press ⊕.
Display the previous or next file on the Memory Stick	Move the joystick to highlight the  (Previous/Next) button. Then move the joystick  to go to the previous file, or  to go to the next file.
Hide the Movie menu bar, displaying only the movie	With the highlight in the Movie menu bar, move the joystick ♥.
Display the hidden Movie menu bar	Move the joystick ♠.
Access additional options in the Movie menu bar	See "Movie Menu Bar Options" on page 78.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

### Movie Menu Bar Options

MPEG1 files that are protected are indicated by the Lock are icon.

#### To access the Movie menu bar

- 1 Move the joystick to highlight Index in the Movie menu bar.
- 2 Move the joystick ← or → to select Index, Slide Show, or File.
- **3** Move the joystick to select the desired option.

Option	Description	
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed movie.	
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 79.	
File	Information	Determines whether file information is displayed. Select On or Off.
	Protect	Allows you to the protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off.
	Delete	Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).

## Memory Stick Index Menu Bar Options

### Slide Show Menu Options

The Slide Show menu is the same whether you select it from the Memory Stick Index (page 72), Photo (page 74), or Movie (page 77) menus.

When you select Complete List, it may take a moment to display the list of all MP3 files.

Some JPEG files may take longer to display than others, which may make it seem longer than the interval you selected for Slide Duration.

The Slide Show menu includes the following options:

		0 1
Option	Description	
Start	Starts the Slid	e Show.
Music	Allows you to Slide Show.	select background audio to play during the
	Off	No additional background audio is played during the Slide Show. Audio that is associated with the JPEG or MPEG1 files will play.
	Play All	Plays all MP3 files on the Memory Stick. The Piano MP3 file is not played.
	Piano	Plays the MP3 file stored in the TV's internal memory. (This file is indicated by a different color than the MP3 files on the Memory Stick.)
	(List of MP3 Files)	Displays a list of all MP3 files found at the top level (root) of the Memory Stick. To show additional MP3 files stored in other folders on the Memory Stick, select Complete List.
	Complete List	Displays a list of all available MP3 files. The list is sorted in alphabetical order, grouped by folder.
Transition Effect		select an effect to be used when advancing to the Slide Show.
	Off	Uses a quick change, or cut.
	Fade	Uses a cross fade.
	Wipe → Wipe ← Wipe ♠ Wipe ▼	Uses a linear sweep that moves across the screen, revealing the next image while covering the previous image.
	Random	Randomly cycles through all Transition Effects.
Slide Duration	Allows you to specify a timed slide advance after a selected time interval. Select from 3 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min.	
Repeat	On	Slide Show continuously loops.
	Off	Slide Show plays once through all files and ends.

## Folder Menu Options

The Folder menu includes the following options:

		• •	
Option	Description		
Select Contents	Allows you to select different folders to view in the Memory Stick Viewer.		
	Digital Camera Folders	Selects all folders within the directories defined by the DCF rules used by Sony digital cameras (see page 81). JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.	
	Select a Folder	Allows you to access individual folders on the Memory Stick.	
Protect	Allows you to protect files from any changes. When a file is protected, it cannot be rotated or deleted. The Protect options affect files currently shown in the Memory Stick Index.		
	Protect All	Protects all files.	
	Protect None	Unprotects all files.	
File Order	Allows you to change the order in which the Memory Stick files are displayed.		
	Date Order	Displays files in chronological order by modification date.	
	Date Order Reverse	Displays files in reverse chronological order by modification date.	
	Alphabetical	Displays files in alphabetical order by filename.	
Filter	Allows you to selectively display specific file types within the selected folder.		
	Show All	Displays all readable files.	
	Show Photos Only	Displays only photo (JPEG) files.	
	Show Movies Only	Displays only movie (MPEG1) files.	

Files that are protected are indicated by the Lock 🖘 icon.

The Rotate and Protect functions do not change the file's modification date.

#### Memory Stick Menu

The Memory Stick menu displays the current status of the Memory Stick, including total capacity, used capacity, and free capacity.

## Notes on Using Memory Stick Media

## About DCF File Names

Most Sony brand digital still and video cameras automatically record still photo and movie files using DCF compliant directory and file names.

If you selected the Digital Camera Folders option, as described on page 80, you might want to have your digital camera's instruction manual handy in order to check how files and directories are organized for your specific model of digital camera.

DCF stands for "Design Rules for Camera File Systems," which are specifications established by the Japan Electronic Industry Development Association (JEIDA).

#### Memory Stick Precautions

When using Memory Stick media, follow these precautions:

- ☐ To avoid permanent damage to still image data, do not turn off the TV or remove Memory Stick media from the insertion slot while data is being read (as indicated by the Memory Stick indicator light being on).
- □ Avoid touching the terminal of Memory Stick media or bringing it into contact with a metal object.
- □ Do not drop, bend, or submit Memory Stick media to external shock.
- □ Do not disassemble or modify Memory Stick media.
- □ Avoid getting liquid on Memory Stick media.
- □ Apply labels only within the designated label area.



- ☐ To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
  - ☐ High temperature (such as near a heater or inside a hot car)
  - ☐ High humidity
  - Direct sunlight
  - Corrosive substances
  - Magnetic fields
  - Excessive dust
  - Static electricity or electric noise
  - Electric surges
- □ Store and carry Memory Stick media in its original case to ensure protection of stored data.
- □ Save a backup of stored data.

## **Using i.LINK**

#### About i.LINK

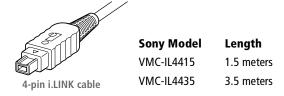
This TV is equipped with i.LINK, which provides a secure digital interface to other digital home entertainment devices, such as digital VCRs, digital camcorders, set-top boxes, and other devices that also are equipped with i.LINK. i.LINK allows for the secure transfer of copyright-protected digital content between these devices and your digital television.

i.LINK is a trademark of Sony Corporation and used only to designate that a product contains an IEEE 1394 connector.

All products with an i.LINK connector may not communicate with each other.

#### Using i.LINK Cables

This TV has three S400 i.LINK terminals (one in the front panel, and two in the back panel). You can use the following i.LINK cables with this TV:



Do not use cables other than the ones listed above.

## Connecting i.LINK Devices

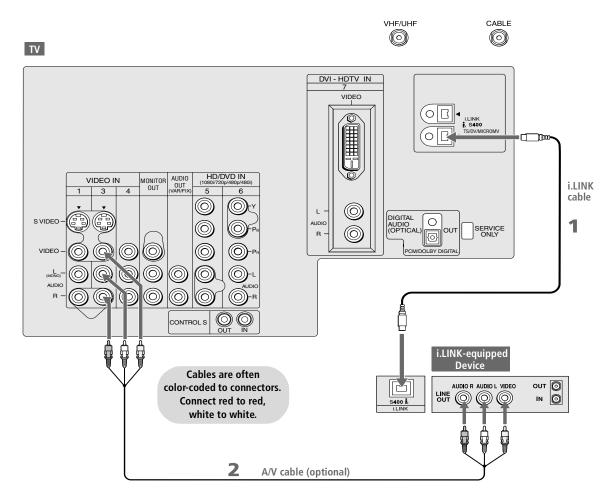
En Before connecting this unit to i.LINK-compatible equipment, read the instruction manual of the i.LINK device to be connected.

To connect a digital i.LINK device (using only a digital signal)

1 Using an i.LINK cable (see page 83), connect the device's i.LINK jack to either of the TV's i.LINK jacks.

To connect an i.LINK device that supports an EIA-775A connection

- 1 Using an i.LINK cable (see page 83), connect the device's i.LINK jack to either of the TV's i.LINK jacks.
- **2** Using an A/V cable, connect the i.LINK device's A/V output jacks to the TV's VIDEO 3 A/V input jacks.
- Only one i.LINK cable should connect the TV and any given i.LINK device.

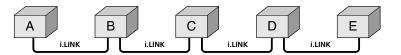


#### **Notes on Using This Connection**

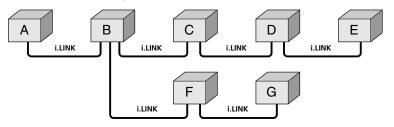
To Do This	Do	This
Set up a digital i.LINK device	the aut	digital i.LINK devices (devices that require only i.LINK connection), no setup is necessary. The TV omatically recognizes the device as soon as the nection is made.
Set up an i.LINK device that supports an EIA-775A analog connection	0	Connect analog A/V cables to the VIDEO 3 input (see page 84). Use the i.LINK Control Panel to activate the analog connection to your i.LINK device (see page 89).

#### Notes on Connecting i.LINK Devices

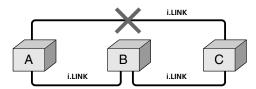
To connect two or more i.LINK devices, use i.LINK cables to connect them as shown below.



You can connect up to 63 i.LINK devices. However, the maximum number of cables in any serial route is 16.



Do not connect i.LINK devices in a way that creates a loop.



Connecting non-compatible devices, such as PCs or PC peripherals, may result in malfunctions.

## Selecting an i.LINK Device

i.LINK functions are not available while using the following

TV features: Twin View, Freeze,

Scrolling Index, and Memory Stick.

Before an i.LINK device can be viewed, it must first be selected via the i.LINK Device List.

1 Connect the i.LINK device that you wish to operate.

For instructions on connecting i.LINK devices, see page 84.

**2** Press i.LINK on the remote control.



The TV (DTV), along with all devices connected by i.LINK to the TV, appear on the Device List.

Devices that are not supported by the TV appear on the Device List as "Other Device," but cannot be controlled using the TV's remote control or on-screen i.LINK Control Panel. For these devices, use the remote control supplied with the device.

3 Move the joystick ♠ or ♥ to navigate among the i.LINK-connected devices.

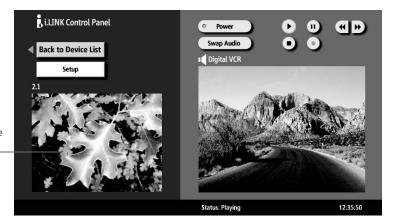
i.LINK devices can be connected to one another and to the TV while the TV is powered on. The Device List will automatically update to include the newly-connected device. See page 84 for more information on connecting i.LINK devices.

4 Press ⊕ to select the desired device and display the device's i.LINK Control Panel. Use the i.LINK Control Panel to operate the selected device. For details, see page 87.

## Using the i.LINK Control Panel

After you select an i.LINK device using the Device List, the TV displays the i.LINK Control Panel, which allows you to use the TV's remote to control the selected i.LINK device.

- 1 If the i.LINK Control Panel is not already displayed, press i.LINK on the remote control.
- If i.LINK is pressed while the TV is displaying an analog or digital channel (not the i.LINK device), then the Device List will appear. Select the desired device from the list and press ① to display the Control Panel.
- Move the remote control's joystick ★ ★ ★ to navigate through the options available in the i.LINK Control Panel.
- 3 Press 🕀 to select a desired option.
- 4 Press EXIT to exit the Control Panel and view the i.LINK device full-screen.
- To exit i.LINK mode, select DTV from the Device List or press CH+/-.



The DTV window appears only if the i.LINK menus were entered while watching a digital TV channel

The i.LINK Control Panel displays the signal from the TV to the left (if available), and the signal from the currently selected device to the right.

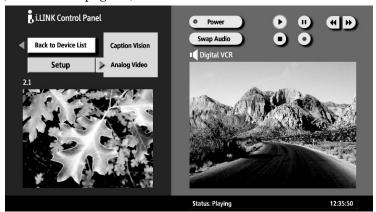
To Do This	Do This
Go to the Device List	Move the joystick to highlight Back to Device List and press ①.
Change the audio being played from the TV to the current selected device, and vice versa	Move the joystick to highlight Swap Audio and press ①. An icon appears next to the window that currently has sound.
Play a recording from the selected i.LINK camcorder or digital VCR	Move the joystick to highlight  and press  .
Fast-forward or rewind a recording from the selected i.LINK camcorder or digital VCR	Move the joystick to highlight  or  and press  .
Record from TV to the selected i.LINK digital VCR	If the (record) button is available, move the joystick to highlight
	• and press 🕀.
Stop a recording from the selected i.LINK digital VCR	Move the joystick to highlight and press 🕀.
Turn the selected device power on and off	Move the joystick to highlight Power and press 🕀.
Setup the selected device	Move the joystick to highlight Setup and press 🕀. For more details on Setup, see page 89.

#### **Notes About Controlling i.LINK Devices**

- □ You can control the functions of the selected i.LINK device by using the equivalent buttons on the TV's remote control. To program the remote control to operate i.LINK devices, see "Programming the Remote Control" on page 49.
- □ Some options on the i.LINK Control Panel may not be available, depending on the device being controlled.
- Only i.LINK-equipped digital camcorders and digital VCRs can be controlled directly through the i.LINK Control Panel.
- □ Not all functions are supported for all i.LINK devices.

#### i.LINK Setup

You can use the i.LINK Control Panel to access digital setup options, some of which are also available through the Digital Program Guide (described on page 63).



To Do This	Do This	
Set up the selected device	Move the joystick to highlight Setup and press 🕀.	
Set up Caption Vision	Once i.LINK Setup has been selected, move the joystick to Caption Vision, and press $\oplus$ .	
	For details about setting up Caption Vision , see "Using the Caption Vision Menu" on page 65.	
Set up i.LINK Analog Video (Set-Top Box)	The TV is able to accept an analog signal from a selected set-top box. The set-top box must be EIA-775A compliant and must be connected to the TV's VIDEO 3 input. To associate the device with the TV's analog VIDEO 3 input, move the joystick to Analog Video and press ①. All EIA-775A-compliant devices will be shown in the list. Select the desired device from the list and press ①.	

#### Notes on i.LINK

- □ The TV can act as an i.LINK repeater, so that i.LINK signals can be relayed to another device even when the TV is powered off. To enable this feature, set the i.LINK Standby option to On using the Setup Menu as described on page 103.
- □ Parental Control settings apply to the signal from a selected device. For more details, see page 100.

### **Using the Menus**

#### **Overview**

The Menu gives you access to the following features:

Menu Icon	Description	Page
Video	Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing, select Advanced Video options, and more.	92
Audio	Offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	94
Screen	Allows you to make Wide Mode adjustments and make changes to the screen's vertical center.	96
Channel	Allows you to set up a Favorite Channel list, run the Auto Program function, skip and label channels, and more.	98
Parent	Lets you control the viewing of programs based on their ratings.	100
Setup	Provides options for setting up your system, including selecting closed caption modes, setting the Timer, labeling video inputs, selecting the language of the on-screen menus, and more.	103

Press MENU to enter and exit Menus.

#### **Navigating Through Menus**

Menus include navigation help text that appears at the bottom of each Menu.

To Do This	Press
Display the Menu	MENU
Move through the Menus	<b>+ +</b>
Move through the Menu options	<b>+</b> *
Select an option to change	$\oplus$
Change an option's settings	<b>↑ * ← →</b>
Select (confirm) changed setting	⊕ or <b>◆</b>
Exit the Menu	MENU

# Video

#### Using the Video Menu

To select the Video Menu

- 1 Press MENU.
- 2 Move the joystick ◆ or → to highlight the Video icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- Move the joystick ◆ ◆ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- 5 Press MENU to exit the Menu.

To restore the factory default settings for the Video settings (excluding Advanced Video) of the Mode (Vivid, Standard, etc.) the TV is set to:

☐ Press RESET on the remote control when in the Video Menu.

#### Selecting Video Options

To change from one Mode to another, use the PIC MODE button on the remote control.

You can alter the Video Menu settings (Picture, Brightness, Color, etc.) for each Mode.

#### The Video Menu includes the following options:

Option	Description	
Mode Customized	Vivid	Select for enhanced picture contrast and sharpness.
picture	Standard	Select for standard picture settings.
viewing	Movie	Select to display a film-like picture.
	Pro	Select to display a picture with minimum enhancements.
Picture	Adjust to increase picture contrast and deepen the color, or decrease picture contrast and soften the color.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Sharpness	Adjust to sharpen or soften the picture.	
Color Temp.	Cool	Select to give the white colors a blue tint.
White	Neutral	Select to give the white colors a neutral tint.
intensity adjustment	Warm	Select to give the white colors a red tint (NTSC-Standard).
ClearEdge VM Velocity Modulation		cture definition to give every object a sharp, clean from High, Medium, Low, Off.



To change quickly from one DRC Mode to another, use the DRC MODE button on the remote control.

Advanced Video options are not available (grayed out) when watching 480p, 720p, and 1080i sources.

To change quickly from one DRC Palette to another, use the DRC PALETTE button on the remote control.

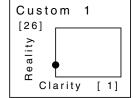
For best results, adjust the Reality by moving the joystick 
until you are satisfied with the level of detail. Then adjust the Clarity by moving the joystick 
until you have a smooth image.

Option	Description		
Advanced Video	_	n to choose a e viewing N	mong the DRC Mode and DRC Palette ISC sources.
	DRC Mode	density, for	nigh-resolution picture with 4x r high quality sources (i.e., DVD ellite receiver).
		Interlaced	Recommended for moving pictures.
		Progressive	Recommended for still images and text.
		CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3-2 pulldown process. Moving pictures will appear clearer and more natural-looking.
	DRC Palette	Allows you	u to customize the level of detail

Allows you to customize the level of detail (Reality) and smoothness (Clarity) for up to three input sources. For example, you can create one Custom setting to optimize your cable input's picture, and create another to optimize your DVD player's picture. You can switch among the three Custom settings using the DRC PALETTE button on the remote control.

- Move the joystick to highlight Custom 1, Custom 2, or Custom 3 and then press ⊕. The DRC Palette appears.
- 2 Move the joystick to adjust the position of the marker (●). As you move the ● higher along the Reality axis, the picture becomes more detailed. As you move the ● to the right along the Clarity axis, the picture becomes smoother.
- To save the setting, press 🕀.

To return the Custom options to the default factory settings, press the RESET button.



# Audio

#### Using the Audio Menu

To select the Audio Menu

- Press MENU.
- 2 Move the joystick ◆ or → to highlight the Audio icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- Move the joystick ↑ ↑ ↑ to change settings. Press ⊕ to select the changed setting.

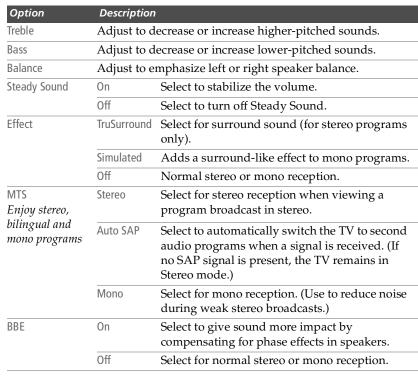
5 Press MENU to exit the Menu.

To restore the factory default settings for Treble, Bass, and Balance

☐ Press RESET on the remote control when in the Audio Menu.

#### Selecting Audio Options

The Audio Menu includes the following options:



To change quickly from one Effect to another, use the D button on the inside panel of the remote control.

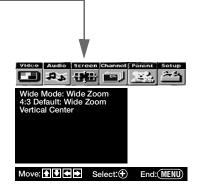
Option	Description	1
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.
Audio Out  Easy control of	This option to Off.	n can be set only when the Speaker option is set
volume adjustments	Variable	The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.
	Fixed	The TV's speakers are turned off and the audio output of the TV is fixed. Use your audio receiver's remote control to adjust the volume (and other audio settings) through your audio system.



#### Using the Screen Menu

To select the Screen Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to move to the Screen icon and press ⊕.
- 3 Move the joystick ♠ or ♥ to move to an option. Press ⊕ to select an option.
- 4 Move the joystick ◆ → ↑ to change settings. Press ⊕ to select the changed setting.
- 5 Press MENU to exit the Menu.



## Selecting Screen Mode Options

To change from one Wide Mode to another, use the WIDE MODE button on the remote control.

For Wide Zoom and Zoom modes, you can adjust the vertical position of the picture. For details, see page 97.

The Screen menu includes the following options:

The sereen menta merades the following options.		
Option	Description	
Wide Mode Select a Wide Mode to use for 4:3 sources	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.
	Normal	Select to return the 4:3 picture to a 4:3 aspect ratio.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
		s unavailable while in Twin View, or when (1080i, 720p) sources.
	aspect ra the top a	cases, wide-screen programs will be shown in tios that require the display of black bands at nd bottom of your 16:9 screen. For more ee page 113.

If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.

Option	Description		
4:3 Default Select the default Screen Mode to	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.	
use for 4:3 sources	Normal	Select to return the 4:3 picture to normal mode.	
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.	
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.	
	Off	Select to continue using the current Wide Mode setting when the channel or input is changed.	
Vertical Center	Allows you to move the position of the picture u down in the window. (Available only in Wide Zo Zoom modes.)		
	Move the joystick ♠ or ▶ and press ⊕ to choose a correction between +15 and -15 (Zoom mode), and +10 and -10 (Wide Zoom mode).		

# Channel

#### **Using the Channel Menu**

To select the Channel Menu

- 1 Press MENU.
- 2 Move the joystick ◆ or → to highlight the Channel icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ◆ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

## Selecting Channel Options

The Channel Menu includes the following options:

- ·			
Option	Description		
Favorite Channels		et up a list of your favorite channels. For	
		"Using Favorite Channels" on page 60.	
Channel Fix	Off	Turns off Channel Fix.	
Useful when you have a cable box or satellite receiver connected	2-6	"Fix" your TV's channel setting to 2-6 and use the cable box or satellite receiver to change channels. Select one of these settings if you connected the equipment to the VHF/UHF jack.	
	Cable 2-6	Same as 2-6, except you select one of these settings if you connected the equipment to the CABLE jack (see page 17).	
	Video 1	Use this setting if you have connected the equipment to the A/V input jacks.	
Auto Program	Automatically sets up the channel list on the TV for all receivable channels.		
	will di	rogram may take several minutes. A progress bar splay the approximate progress of the Auto m and Digital Channel Add sequences.	
Digital Channel	Add	Select to add digital channels.	
Channel Skip/Add		a to customize the analog channels that appear use the CH+/- buttons.	
	chann	the joystick ♠ or ♥ to scroll through the els until you find the channel you want to skip l. Then press ⊕ to select it.	
		the joystick ♠ or ♥ to toggle between Add or hen press ⊕ to select.	
	3 To add	d or skip more channels, repeat steps 1 and 2.	
	4 Move	the joystick • to return to the Channel Menu, ss MENU to exit the Menus.	

Channels that you set to be skipped can be accessed only by direct (0-9 buttons) tuning.

Option	Description
Channel Label	Allows you to assign labels (such as station call letters) to
Citatillei Labei	channel numbers. You can label up to 40 channels.
	1 Move the joystick to highlight Channel and press 🕁.
	,,,
	Move the joystick ↑ ♦ to scroll through the channel
	numbers. Then press 🕀 to select the channel
	number that you want to assign a label.
	3 Move the joystick to highlight Label and press ①.
	4 Move the joystick ★ ▼ to scroll through the label
	characters (A-Z, 0-9, etc.). Then press $\bigcirc$ to select the
	highlighted character.
	5 Repeat to add up to 5 characters to the label.
	6 To assign labels to more channels, repeat steps 1-4.
	7 Move the joystick ◆ to return to the Channel Menu,
	or press MENU to exit the Menus.



#### Using the Parent Menu

The Parent Menu allows you to set up the TV to block programs according to their content and rating levels.

To select the Parent Menu

- Press MENU.
- 2 Move the joystick o or → to highlight the Parent icon and press ⊕.
- 3 Use the 0-9 buttons on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. (The Parent Menu options appear.)
- 5 Move the joystick ◆ ◆ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- 6 Press MENU to exit the Menu.

You need your password for any future access into the Parent Menu. If you lose your password, see "Lost password" on page 114.

#### Selecting Parent Options

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more specific ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see page 101. The Parent Menu includes the following options:

Option	Description	
Parental Lock	Off	Parental lock is off. No programs are
Turn ratings		blocked from viewing.
on/off and select a rating system	Child	Maximum ratings permitted are: ☐ US: TV-Y, TV-G, G ☐ Canada: C, G, TV-Y
	Youth	Maximum ratings permitted are:  US: TV-PG, PG
		☐ Canada: C8+, PG, 8 ans+, TV-PG
	Y. Adult	Maximum ratings permitted are: ☐ US: TV-14, PG-13 ☐ Canada: 14+, 13 ans+, TV-14
	Custom	Select to set ratings manually.  US: See page 101 for details.  Canada: See page 102 for details.
Change Password	For changing your password.	
Select Country	U.S.A.	Select to use USA ratings (see page 101).
	Canada	Select to use Canadian ratings (see page 102).

#### US Models: Selecting Custom Rating Options

The Content-Based Ratings are linked to the level of the Age-Based Rating. For example, a program with an Age-Based Rating of TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

To ensure maximum blocking capability, set the Age-Based Ratings.

If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

For US models, the Custom Rating Menu includes the following options. (For Canadian models, see page 102.)

Option	Descrip	Pescription			
Movie Rating	G	All children and General Audience.			
	PG	Parental Guidance suggested.			
	PG-13	Parental Guidance for children under 13.			
	R	Restricted viewing, parental guidance is suggested for children under 17.			
	NC-17 and X	No one 17 or under allowed.			
TV Rating	Age-Base	ed Ratings			
Block programs	TV-Y	All children.			
by their rating,	TV-Y7	Directed to children age 7 and older.			
content or both	TV-G	General Audience.			
	TV-PG	Parental Guidance suggested.			
	TV-14	Parents Strongly cautioned.			
	TV-MA	Mature Audience only.			
	Content-	Based Ratings			
	FV	Fantasy Violence.			
	D	Suggestive Dialogue.			
	L	Strong Language.			
	S	Sexual situations.			
	V	Violence.			
Unrated Block programs	Block	Blocks all programs and movies that are broadcast without a rating.			
or movies that are broadcast without a rating	Allow	Allows programs and movies that are broadcast without a rating.			

#### Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.

#### Canadian Models: Selecting Custom Rating Options

For Canadian models, the Custom Rating Menu includes the following options. (For US models, see page 101.)

Option	Description			
English Rating	С	All children.		
	C8+	Children 8 years and older.		
	G	General programming.		
	PG	Parental Guidance.		
	14+	Viewers 14 and older.		
	18+	Adult programming.		
French Rating	G	General programming.		
	8 ans+	Not recommended for young children.		
	13 ans+	Not recommended for ages under 13.		
	16 ans+	Not recommended for ages under 16.		
	18 ans+	Programming restricted to adults.		
U.S.A. Rating	See "US Mod	See "US Models" on page 101 for details.		

#### Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.



#### **Using the Setup Menu**



- 1 Press MENU.
- 2 Move the joystick ◆ or → to highlight the Setup icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

#### Selecting Setup Options

Caption Vision options in the Setup Menu apply only to analog programs. To set up closed captioning for digital programs, see "Using the Caption Vision Menu" on page 65. The Setup Menu includes the following options:

Option	Description			
Caption Vision	Allows you to select from three closed caption modes (for programs that are broadcast with closed caption).			
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)		
	Text1,Text2, Text3,Text4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.		
	Info	Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays when the channel is changed or the DISPLAY button is pressed.		
	Off	Turns off Caption Vision.		

0.11	5 1 11					
Option	Description					
Video Label	the TV, such as a V a DVD player con select the label DV you press the TV/V Label you assigne 1 Move the joys (VIDEO 1-7) Then press 2 Move the joys displayed lab	(VIDEO 1-7) to which you want to assign a label. Then press 🕀 to select the input.				
		m the following labels for each input:				
	Video 1/2/3/4	VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, LD, Beta, Skip				
	Video 5/6/7	DVD, Satellite, Cable Box, DTV, HD, Skip				
	If you select Skip, your TV skips this input when you press the TV/VIDEO button.					
Language	Select to display all on-screen Menus in your language of choice.					
Clock/Timers	Select to set the clock and to program your TV to turn on and off at two scheduled viewing times.					
	Timer 1 Timer 2	You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times.				
	Timer 1 and Timer 2 are not available to be set until you set the Current Time.					
		stick ♠ or ♥ to highlight Timer 1 or the timer, move the joystick ▶.				
		Move the joystick ♠ or ♥ to highlight one of the following options, then press ⊕.				
	Program	Select to set the Timer by day, time, duration, and channel.				
	Off	Select to turn off the Timer. (Your previous settings are saved.)				
	and <b>↓</b> to set t channel num confirm each	d Program in step 2, move the joystick ♠ the day(s), hour, minute, duration, and ber. Press ⊕ or move the joystick ♠ to setting and move to the next setting. stick ♠ to go back to the previous				

Press MENU to exit the Menu. An LED on the front panel will light, indicating the timer has been set.

The Skip label is useful for inputs that do not have equipment connected to them.

To go directly to programming Timer 1 or 2, press ⊕ instead of moving the joystick ▶.

Option	Description			
Clock/Timers	Current Time			
(continued)	<ol> <li>Press ⊕ to select Current Time.</li> <li>Move the joystick ♠ and ♥ to set the current time (day, hour, and minute). Press ⊕ (or move the joystick ♦) to confirm each setting and move to the next setting. Move the joystick ◆ to go back to the previous setting.</li> <li>Press MENU to exit the Menu.</li> </ol>			
Flash Focus	Allows you to adjust the convergence automatically. For details, see page 42.			
Convergence	Allows you to fine-tune the convergence manually. For details, see page 43.			
i.LINK Standby	On Allows the i.LINK signal to pass through to connected i.LINK devices even when the TV is turned off. The front panel i.LINK Standby LED shows orange. The TV uses more standby power than when this option is set to Off.			
	Off  Does not allow the i.LINK signal to pass through to connected i.LINK devices when the TV is turned off. The front panel i.LINK Standby LED shows red. The TV uses less standby power than when this option is set to On.			

Runs a demonstration of on-screen Menus.

You can also access Flash Focus by pressing the FLASH FOCUS button on the front panel of the TV. For details, see pages 14-15.

Demo

## Other Information

#### **Overview**

This chapter includes the following topics:

Topic	Page	
Glossary	108	
Contacting Sony	109	
Troubleshooting	109	
Specifications	115	
Optional Accessories	116	
Index	117	

#### Glossary

analog signal

A signaling method that uses continuous changes in the amplitude or frequency of an electronic transmission to convey information.

aspect ratio

Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

4:3 aspect ratio





component video



Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.

composite video

Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.

digital television (DTV)

A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.

National Television System Committee (NTSC)

A unit of the Federal Communications Commission, Washington, DC, that establishes television standards in the United States, such as NTSC Color, the standard used in this TV.

RF

Radio Frequency. That part of the frequency spectrum that is used to transmit TV and radio signals.

S VIDEO

S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S VIDEO provides better resolution than composite video, which carries the signals together.

VHF/UHF

VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

480i

Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.

480p

Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

720p

Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

1080i

Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).

#### **Contacting Sony**

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

#### **Troubleshooting**

If you are having problems with your TV, you can reset all the TV's settings to their original factory default settings, as follows.

- Notice: The following procedure resets all custom settings, channel lists, etc., to the factory default settings.
- 1 Turn on the TV.
- 2 Hold down the RESET button on the remote control.
- 3 Press the POWER button on the front panel of the TV.
- 4 Release the RESET button on the remote control.

#### Twin View

Problem	Pos	sible Remedies
I cannot get Twin View to work		If you are using a cable box to unscramble all channels (as shown on page 22), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. But if you need the cable box to unscramble only some (usually premium) channels, you can use Twin View for unscrambled channels if you connect both a cable and cable box, as shown on page 21.
		You can use Twin View to view a signal from a different source that is connected to the TV's A/V jacks (such as a VCR or DVD player) in the second window by pressing the TV/VIDEO button while in Twin View.
		Sources connected to the CABLE, VIDEO 5, VIDEO 6, and VIDEO 7 inputs, as well as digital sources, display in the left Twin View window, but not the right.
There is no Twin View window, or it is just static		Be sure the Twin View window is set to a video input or channel that has a signal airing.
,		You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing the TV/VIDEO button.
Twin View cannot display anything but TV channels		Try cycling through the video inputs by pressing the TV/VIDEO button. Check that the Video Label option is not set to Skip. (See the Setup Menu on page 104.)
Twin View displays the same program in both windows		Both Twin View windows might be set to the same channel. Try changing channels in either window.

#### Remote Control

Problem	Possible Remedies
Remote control	☐ The batteries could be weak. Replace the batteries.
does not operate	☐ Check the orientation of the batteries.
	☐ Press the TV FUNCTION button. You may have inadvertently pressed the
	SAT/CABLE FUNCTION button, which changes the remote control to SAT or
	CABLE mode.
	☐ Make sure the TV's power cord is connected securely to the wall outlet.
	☐ Locate the TV at least 3-4 feet away from fluorescent lights.
Cannot change channels	☐ If you are using the TV to change channels, first press the TV FUNCTION
with the remote control	button.
	☐ If you are using another device to change channels, be sure you have not
	inadvertently switched your TV from the channel 3 or 4 setting. Use the
	Channel Fix option to "fix" the channel based on the hookup you used (see page 98).
	☐ If you are using another device to change channels, be sure to press the
	FUNCTION button for that device. For example, if you are using your cable box
	to change channels, be sure to press the SAT/CABLE FUNCTION button.
Remote control	☐ If you replaced the batteries to the remote recently, the code numbers for
does not operate non-Sony	the video equipment may need to be reset.
video equipment	☐ There may be more than one code for the equipment that you are
	attempting to operate.
	☐ There is a possibility that some non-Sony equipment cannot be operated by
	your Sony TV remote. You may need to use the equipment's original remote control.

#### Channels

Problem	Pos	ssible Remedies
Cannot receive upper channels (UHF) when using an antenna		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98).
TV is fixed to one channel		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98). Check your Channel Fix settings (see page 98).
Cannot receive any channels when using cable TV		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98).
Cannot receive or select channels		Use Auto Program in the Channel Menu to add receivable TV channels that are not presently in TV memory (see page 98).
Some digital cable channels are not being displayed	0	Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information.  The digital cable channel may be set to Hide in the Digital Setup Menu (see page 65).  Use the Add Digital Channels feature to search for new digital channels (see page 65).

### Memory Stick

Duahlana	Α-	reible Demodies
Problem		ssible Remedies
Image does not		Make sure the image file is a JPEG (.jpg, .jpeg) file or an MPEG1 (.mpg,
display/Cannot see all files	_	mpeg) file.
		Make sure the Memory Stick is inserted properly (see pages 69-70).
		Check the Filter option setting (see page 80).
		Check the Select Contents setting (see page 80) and ensure that files are either
		in DCF directories if Digital Camera Folders is selected (see page 80), or in the
	_	currently selected folder if Select a Folder is selected (see page 80).
		The maximum number of files the Memory Stick Viewer can display is
	_	1,024.
		If you are using a Memory Stick with the Memory Select function, try
		changing the position of the A/B select switch.
JPEG image displays		JPEGs captured using a digital video camera may appear to display motion
undesirable motion or flicker	r	in full screen. This is a result of the way digital video cameras record still
in full screen		images, and is not a result of a malfunction with the TV.
Rotation not saved after		The Memory Stick might be locked. Unlock the Memory Stick and try
Memory Stick is ejected or		rotating the image again.
Memory Stick Viewer is		The file might not have information (EXIF data) that is usually generated
closed		when a digital camera records a photo. In this case, it is not possible to save
		the rotation.
		There might be insufficient space on the Memory Stick to save the rotated
		file. Try deleting one or more files and rotating the image again.
Cannot show (or hide) file		Set the File/Information option to On or Off (see pages 75 and 78).
information in full screen or		
Slide Show		
Cannot see menu		Move the joystick ♠ to display the menu again.
Cannot hear audio while		Check the TV's volume or Speaker (page 95) settings.
using Memory Stick		To hear JPEG voice memo, select the Digital Camera Folders option and set the
		Filter option to Show All.
		Check that the Music option is not to set to 0ff (see page 79).
Not all MP3 files on Memory	7 🔲	The maximum number of MP3 files the Memory Stick Viewer can display
Stick are included when the		is 128.
Music /Complete List option is		Make sure that the file is named with the file extension (.mp3).
selected (page 79)	_	O A CAMPEGO
MPEG1 movie does not		Some variations of MPEG1 movies may not be compatible with the
play back correctly	_	Memory Stick Viewer.
MPEG1 quality is poor wher	1 🗀	The quality of the movie when enlarged depends on the resolution of the
enlarged (page 77)		MPEG1 file. See your camera's instruction manual for details.
MP3 files on the Memory		Only MP3 files that are named with the file extension (.mp3) are displayed in the list
Stick are not listed		in the list.
Music files are playing in		MP3 files are played in alphabetical order, according to the folder in which
wrong order		they are stored. If you want to change the playlist order, rename your files
Compatible MD2 Profession	_	alphabetically in the order in which you want them to play.
Cannot see MP3 list to play		MP3 files on your Memory Stick only can be played as background music
music		during a Slide Show (see page 79).

Problem	Possible Remedies		
Error message		No Memory Stick	There is no Memory Stick in the slot.
is displayed		Memory Stick Locked	The lock mechanism on the Memory Stick is engaged.
		Memory Stick Error	The Memory Stick in the slot might be damaged; try a different Memory Stick.
		Format Error	The Memory Stick may have been formatted using a PC or other device that is not compatible with cameras.
Error icon is displayed		?,	The file is not a valid MPEG1 or JPEG format.
		?	The thumbnail is not DCF-compatible.
		5	The file is a JPEG or an MPEG1, but the thumbnail is unreadable.
		以	The file is unreadable.

### Audio

Problem	Po.	ssible Remedies
Good picture,		Press MUTING so that Muting disappears from the screen (see page 46).
no sound		Make sure the Speaker option is set to On in the Audio Menu (see page 95).
Cannot gain enough volume when using a cable box		Increase the volume of the cable box using the cable box's remote control. Then press TV FUNCTION and adjust the TV's volume.
Sound seems weak or insufficient		The TV's audio might be set to Auto SAP or Mono, when it might be better set to Stereo. In the Audio Menu (see page 94), set the MTS setting to Stereo. If already set to Stereo, switch to Mono (which may reduce background noise during weak stereo broadcasts).
Cannot raise the volume on external audio speakers  If the Speaker of order to output adjust the source.		If the Speaker option is set to Off and the Audio Out option is set to Fixed (in order to output the sound to your audio system) use your audio receiver to adjust the sound (see page 94). Or, to use the TV remote control, set the Audio Out option to Variable.
		To turn on the TV speakers, set the Speaker option to On (see page 94).

#### Video

Problem	Po	ssible Remedies		
No picture		If your TV does not turn on, and a red light keeps flashing, your TV may		
(screen not lit), no sound		need service. Call your local Sony Service Center.		
·		Make sure the power cord is plugged in.		
		Press the POWER button on the front of the TV.		
_		Press the TV/VIDEO button to cycle through the connected video sources.		
		Try another channel; it could be station trouble.		
Dark, poor or no		Adjust the Picture option in the Video Menu (see page 92).		
picture (screen lit),		Adjust the Brightness option in the Video Menu (see page 92).		
good sound		Check the antenna/cable connections.		
No color		Adjust the Color option in the Video Menu (see page 92).		
Only snow and noise		Check the antenna/cable connections.		
appear on the screen		Try another channel; it could be station trouble.		
		Press ANT to change the input mode (see page 46).		
Dotted lines		Adjust the antenna.		
or stripes $\Box$		Move the TV away from noise sources such as cars, neon signs, or hair-		
		dryers.		
Double images or ghosts		Using a highly directional outdoor antenna or a cable may solve the problem.		
"Black box" on screen		You have selected a text option in the Setup Menu and no text is available.		
		(See page 103 to reset Setup selections.) To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4.		
Black bands appear at the		Some wide-screen programs are filmed in aspect ratios that are greater		
top and bottom of the screen	ı	than 16:9 (this is especially common with theatrical releases). Your TV will		
		show these programs with black bands at the top and bottom of the screen.		
		For more details, check the documentation that came with your DVD (or contact your program provider).		
Certain programs on DVD o	r 🗆	The compression used by certain digital broadcasts and DVDs may cause		
other digital sources display		your TV's screen to display less detail than usual, or cause artifacts (small		
a loss of detail, especially		blocks or dots, pixelations) to appear on your screen. This is due to your		
during fast-motion or dark		TV's large screen and ability to show very fine detail, and is normal for		
scenes		certain digitally recorded programs. Adjust the reality/clarity in the DRC		
		Palette menu (see page 93) to optimize the picture while viewing these sources.		

#### General

Problem	Pos	ssible Remedies	
How to reset TV to factory settings		Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the TV. (The TV will turn itself off, then back on again.) Release the RESET button.	
How to restore Video settings  to factory settings		Press the RESET button on the remote control while in the Video Menu (see page 92).	
How to restore Audio settings to factory settings		Press the RESET button on the remote control while in the Audio Menu (see page 94).	
Cannot cycle through the other video equipment connected to the TV		Be sure the Video Label option is not set to Skip (see page 104).	
Cannot operate Menu		If a menu option appears in gray, this indicates that the TV is in a state in which the menu option is not available.	
Lost password		In the password screen (see page 100), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.	
LED on front panel is lit		The STAND BY LED (see page 15) blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service.	
		The TIMER LED (see page 15) indicates that the timer is set. When the timer is set, this LED will remain lit even when the TV is turned off.	
		The i.LINK STANDBY LED blinks when the signal from an i.LINK device is being shown.	
The signal from a selected i.LINK device is not being displayed		If you have several i.LINK devices connected and operating at once, the TV may not be able to display the signal from the selected device. Turn the other i.LINK devices off, and reselect the desired i.LINK device.	

### **Specifications**

Projection System	3 picture tubes, 3 lenses, horizontal in-line system			
Picture Tube	7-inch high-brightness monochrome tubes (6.3 raster			
	coupling and liquid cooling system			
Projection Lenses	High performance, large			
	diameter hybrid lens F1.1			
Antenna	75 ohm external terminal for			
Television System	NTSC, American TV Standar	rd		
Channel Coverage	VHF	2-13		
	UHF	14-69		
	DTV	1-999		
	CATV	1-125		
Power Requirements	120V, 60 Hz			
Inputs/Outputs				
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50			
	The DVI-HDTV input terminal is compliant with the EIA-861 standard and is			
	not intended for use with pe	rsonal computers.		
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative		
S Video (IN)	3 total (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms		
Audio (IN)	7 total (1 on front panel)	500 mVrms (100% modulation)		
		Impedance: 47 kilohm		
Component Video Input	2 (Y, P <sub>B</sub> , P <sub>R</sub> )	Y: 1.0 Vp-p, 75 ohms unbalanced, sync		
		negative; P <sub>B</sub> : 0.7 Vp-p, 75 ohms		
		P <sub>R</sub> : 0.7 Vp-p, 75 ohms		
Digital Audio Optical Output PCM/Dolby Digital	1	Optical Rectangular (1)		
CONTROL S (IN/OUT)	1			
i.LINK	3 total (1 on front panel)	4-pin S400 i.LINK terminal		
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum		
		volume setting (Variable)		
		More than 408 mVrms (Fixed)		
		Impedance (output): 2 kilohms		
Supplied Accessories	Remote Control	RM-Y192		
	AA (R6) Batteries	2 supplied for remote control		
Screen Size (measured diagonally)	KDP-51WS550	51 inches		
	KDP-57WS550	57 inches		
	KDP-65WS550	65 inches		
Speaker Output	20W x 2			
Dimensions (W x H x D)	KDP-51WS550	1194 x 1350 x 650 mm		
		$(47 \times 53^{-1}/8 \times 25^{-5}/8 \text{ in})$		
	KDP-57WS550	1326 x 1377 x 690 mm		
		$(52 \ ^{1}/4 \times 54 \ ^{3}/_{16} \times 27 \ ^{1}/_{8} \text{ in})$		
	KDP-65WS550	1542 x 1507 x 735		
		$(60 \ ^{3}/4 \times 59 \ ^{1}/4 \times 28 \ ^{15}/16 \text{ in})$		
Mass	KDP-51WS550	79.3 Kg (174.5 lbs)		
	KDP-57WS550	87.0 Kg (191.5 lbs)		
	KDP-65WS550	139.5 Kg (307 lbs)		
Power Consumption	In Use	295 W		
-	In Standby	Under 1 W		
	In i.LINK Standby	Under 17 W		
D		subject to change without notice.		

Design and specifications are subject to change without notice.

#### **Optional Accessories**

- □ A/V Cable (VMC-810/820/830 HG)
- □ Audio Cable (RKC-515HG)
- □ Component Video Cable (VMC-10/30 HG)
- □ Control S Cable (RK-G69HG)
- □ i.LINK cables: VMC-IL4415 (4-pin to 4-pin, 1.5 meters); VMC-IL4435 (4-pin to 4-pin, 3.5 meters)

### Index

0-9 buttons 47, 54, 58	carrying the TV 12	DRC Palette 93
16:9 aspect ratio 56	CATV. See cable	DRC PALETTE button 47
4:3 aspect ratio <b>56</b>	CH buttons 15, 47	DRC. See Digital Reality
4:3 Default settings 97	changing picture size, in Twin	Creation.
-	View 59	DVD player
A	Channel Menu 91, 98	connecting 34, 36
Add Digital Channels 65	Channel Show/Hide 65	using with TV remote
Advanced Video 93	Channel Skip/Add 98	control 52
Alternate Audio 64	channels, creating labels 99	DVI. See Digital Visual
Alternate Video 64	CineMotion 10, 46, 93	Interface. DVI-HDTV 17, 115
ANT button 46, 54	ClearEdge VM 10, 92	DVI-11D1 V 17, 113
antenna, connecting 19	clearing, Favorite Channels 60	E
Audio Menu 91, 94 Audio Out 95	closed caption modes 91, 103 CODE SET button 46	Effect button 48
	color, adjusting 92	ENTER button 47, 54, 58
audio receiver, connecting 38 Auto Program (channel	CONTROL S 40	error messages, Memory Stick
setup) 41, 98	CONTROL S IN/OUT jacks,	112
Auto SAP, MTS setting 94	described 17	EXIT button 47
	Convergence 15, 105	
В	adjusting automatically 42	F
balance, adjusting 94	adjusting manually 43	Fast-forward button 48
bass, adjusting 94	convergence 105	Favorite Channels
batteries, inserting in remote	Cool, Color Temperature 92	clearing 60
45	D	in Channel Menu 98 using 60
BBE 94	D	FAVORITES button 46
bilingual audio 94	Demo, Menus 105	features 9
blocking programs. See	DIGITAL AUDIO OPTICAL	Fixed audio setting 95
ratings.	jack 17 Digital Caption Setup 65	Flash Focus <b>42</b> , <b>105</b>
brightness, adjusting 92	Digital Caption Setup 03  Digital Caption Setup menu	FLASH FOCUS button 15
С	66	FREEZE button 47, 61
cable	digital channels, adding 98	Freeze, using 61
connecting 19	Digital Reality Creation 9	Full Mode 56
with VCR, connecting 24	Digital Setup menu 65	Full mode, setting 96
cable box	Digital Signal Strength 65	6
connecting with VCR 26	digital subchannels 64	G
Twin View issues 57	Digital Visual Interface (DVI)	GUIDE button 47, 63
using with TV remote	10, 17	Guide menu 64
control 52 CABLE jack, described 17	DISC MENU button 48, 52	Н
Caption Vision 103	DISPLAY button 47, 54	HD Detailer 10
Caption Vision menu, for	DRC Mode 93	HD/DVD IN (1080i/720p/
digital channels 65	DRC MODE button 46	480p/480i) jacks, described
		100p, 1001, jacks, accerbed

17	Parent <b>91, 100</b>	60
hue, adjusting 92	Setup 91, 103	RESET button 46, 93
	Video 91, 92, 96	resetting, Audio options 94
I	MONITOR OUT 17	Rewind button 48
i.LINK 10, 13, 83–89	Mono, MTS setting 94	
i.LINK button 46	Movie mode 92	S
I.LINK jack, described 17	MTS 94	S VIDEO jack, described 13,
i.LINK Standby 15, 105	MTS/SAP button 48	17
i.LINK/AV1-3/DVD slide	MUTING button 46, 54	SAT/CABLE
switch 48	,	FUNCTION button 47
	N	POWER button 47
INDEX button 46, 55	Neutral, Color Temperature	satellite receiver, using with
Infrared Receiver 15	92	TV remote control 51
interlaced 9, 46, 93, 108	Normal mode 56, 96	Scrolling Index, using 55
1	1 (O) Intal Intoac 30, 30	SELECT button 48
	0	
joystick 46	off, turning off the TV 15	Setup Menu 91, 103
JUMP button 47, 54	_	sharpness, adjusting 92
	on, turning on the TV 15	Simulated, Effect 94
L	P	sizing, picture in Twin View
label, channels 99	-	59
Language, setting 104	Parent Menu 91, 100	SLEEP button 46
	parental control, described 10	speakers
M	password, changing 100	turning on/off 95
MDP, using with TV remote	Pause button 48	using external speakers 95
control 52	PIC MODE button 47	specifications 115
Memory Stick	picture contrast, adjusting 92	STAND BY indicator 15, 114
button 47	Picture in Picture. See Twin	Standard mode 92
Duo <b>70</b>	View.	Steady Sound
features 67	Play button 48	described 10
Index 72	POWER button 15	setting 94
indicator (LED) 15	powering on/off, the TV 15	Stereo, MTS setting 94
inserting 69	presetting channels 98	Stop button 48
insertion slot 15	Pro (Video) mode 92	surround sound 94
panning photos 76	problems, troubleshooting	SYSTEM OFF button 48
photo options 75 playing movies 77	109—114	-
precautions 82	Program Guide 63	T
removing 71	Program Options menu 64	Timer 104
rotating photos <b>76</b>	progressive 9, 46, 93, 108	TIMER indicator 15, 114
slide show options <b>79</b>	•	timers, setting 104
troubleshooting 111	R	transport buttons 48
Viewer, described 10	ratings, setting 100-102	treble, adjusting 94
viewing photos 74	ratings, viewing blocked	troubleshooting 109–114
zooming photos 76	programs 101, 102	TruSurround 94
MENU button 46, 48, 54, 60,	Record buttons 48	TruSurround, Effect 94
91	remote control	turning on/off the TV 15
Menus	inserting batteries <b>45</b>	TV FUNCTION button 47, 54
Audio <b>91, 94</b>	programming 49–50	TV POWER button 47, 54
Channel 91, 98	removing, Favorite Channels	TV/VCR button 48

TV/VIDEO button 15, 46, 54 Twin View button 47 described 10 using 57–59
V
Variable audio setting <b>95</b> VCR
using with TV remote
control 51
with cable box, connecting 26
with cable, connecting 24
with satellite receiver,
connecting 32
VCR/DVD button 48
Vertical Center, adjusting 97
VHF/UHF jack, described 17
VIDEO (L/R)/AUDIO jacks,
described 17
Video Menu 91, 92
Video modes, selecting 92
Vivid mode 92
VOL buttons 15, 46, 54
W
Warm, Color Temperature 92
Wide Mode <b>56</b> , <b>96</b>
WIDE MODE button 46, 56
Wide Screen, described 9
Wide Zoom mode 56, 96
Z
zoom feature, with Twin
View 59

Zoom Mode **56**, **96** 

#### LIMITED WARRANTY

This warranty is applicable to U.S. residents only. If you are a Canadian resident, see the separately enclosed warranty for your product.

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship, subject to any conditions set forth as follows:

- 1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
- 2. PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year (color picture tube- two (2) years). After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.
- 3. ACCESSORIES: Parts and labor for all accessories are for one (1) year.

In-home diagnostic warranty service is provided during the initial 90 day period for 19" (measured diagonally), or larger screen size through a Sony authorized service facility.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree or protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allows limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

**Sony Customer Information Service Center** 

1-(800)-222-7669

Or visit the Sony Web Site: www.sony.com

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY(7669)